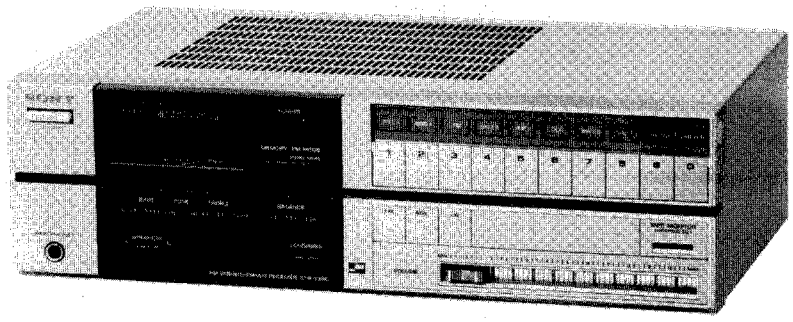
STR-YX50L

AEP Model
UK Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

Amplifier section

Continuous RMS Power Output (Less than 0.03% THD, both channels driven simultaneously):
At 20 Hz – 20 kHz
30 + 30 watts (6 ohms)
According to DIN 45500
30 + 30 watts (6 ohms)

Dynamic Headroom: 1.4 dB ('78 IHF)

Harmonic Distortion: Less than 0.05% at rated output

Intermodulation (IM) Distortion (60 Hz: 7 kHz = 4 : 1): Less than 0.05% at rated output

Frequency Response: PHONO: RIAA equalization curve ±0.5 dB
CD/AUX, TAPE: 10 Hz – 70 kHz $^{+0}_{-1}$ dB

Residual Noise: Less than 200μV (6 ohms, network A)

Damping Factor: 28 (6 ohms, 1 kHz)

Outputs:
REC OUT
Voltage 150 mV
Impedance 10 k ohms
SPEAKER A, B
Accepts speakers of 6 to 16 ohms.
HEADPHONES
Accepts low and high impedance headphones.

Tone Controls:
BASS
±8 dB at 100 Hz
TREBLE
±8 dB at 50 kHz

Loudness (att. 30 dB):
+8 dB at 100 Hz
+3 dB at 10 kHz

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

SONY®
SERVICE MANUAL

Inputs

	Sensitivity	Impedance	Maximum input capability (1 kHz)	S/N (weighting network, input level)
PHONO	2.5 mV	50 kΩ	150 mV	74 dB 74 dB* (A, 2.5 mV)
CD/ AUX TAPE	150 mV	50 kΩ	–	96 dB 79 dB* (A, 150 mV)

* '78 IHF

FM tuner section

Tuning Range: 87.5 MHz – 108 MHz

Antenna Terminals: 75 ohms, unbalanced

Intermediate Frequency: 10.7 MHz

Sensitivity (at 40 kHz deviation): at 46 dB quieting
17.3 dBf, 4μV (mono)
38.3 dBf, 45μV (stereo)

Usable Sensitivity (at 40 kHz deviation): 10.3 dBf, 1.8μV (IHF)
1.6μV (S/N = 28 dB)

Signal-to-noise Ratio: 74 dB (mono)
69 dB (stereo)

Harmonic Distortion (at 1 kHz): 0.15% (mono)
0.25% (stereo)

IM Distortion: 0.15% (mono)
0.25% (stereo)

Separation (at 1 kHz): 45 dB

Frequency Response: 40 Hz – 12.5 kHz $^{+0.5}_{-1.0}$ dB
30 Hz – 15 kHz $^{+0.5}_{-2.0}$ dB

Selectivity: at 300 kHz
60 dB

Capture Ratio: 1.0 dB

AM Suppression Ratio: 54 dB

Image Response Ratio: 80 dB

IF Response Ratio: 90 dB

Spurious Response Ratio: 70 dB

RF Intermodulation: 65 dB (IHF)

MW/LW tuner section

		MW	LW
Tuning range		522 kHz – 1,602 kHz	153 kHz – 344 kHz
Antenna	ferrite-bar antenna	provided	provided
	external antenna terminal	provided	provided
Intermediate frequency		450 kHz	450 kHz
Usable sensitivity	ferrite-bar antenna	300μV/m (at 1,000 kHz)	500μV/m (at 230 kHz)
	external antenna	100μV (at 1,000 kHz)	100μV (at 230 kHz)
Signal-to-noise ratio		54 dB	54 dB
Harmonic distortion		0.3%	0.3%
Selectivity		35 dB (9 kHz)	35 dB (9 kHz)

General

System: Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp.
Power amplifier section: quazi-complementary SEPP

Power Requirements: 220 V ac (or 240 V ac, adjustable by authorized Sony personnel) 50/60 Hz
Memory back-up power: 3 V dc, two batteries, IEC designation R6 (size AA)
Battery life: approx. 1 year with Sony SUM-3(NS) New Super Batteries

Power Consumption: 80 watts

AC Outlets: 2 switched total 100 watts

Dimensions: Approx. 355 x 105 x 240 mm (w/h/d)
(14 x 4¼ x 12¼ inches)
including projecting parts and controls

Weight: Approx. 5.5 kg (12 lbs 2 oz) net
Approx. 6.2 kg (13 lbs 11 oz) in shipping carton

FEATURES

The STR-YX50L with its Direct Access System, makes station selection easier than ever. The STR-YX50L also employs the quartz-locked digital synthesizer system in a separate state-of-the-art tuner section and provides medium-high power output for your home audio system from its amplifier section.

Amplifier section

- Tone control stages, which employ an IC, are carefully designed to improve stereo separation and signal-to-noise ratio.
- Protection and power muting circuits are included to avoid annoying thump noise during power switching.

Tuner section

- The quartz-locked digital synthesizer system with a sophisticated Phase Locked Loop (PLL) circuit allows extremely precise tuning of FM and AM stations with an electronic digital readout on the frequency display.

A new IC recently developed by Sony allows the high comparison frequency, thus eliminating the tendency for a low comparison frequency, which had been previously generally employed, to slip into the audio range and degrade the signal-to-noise ratio.

- Four methods of tuning are available :

Direct access tuning ; FM or AM stations can be directly tuned in by inputting the station frequency with the DIRECT TUNING buttons.

Automatic tuning : the FM band is scanned automatically until a signal is received.

Manual tuning : AM tuning can be accomplished either by changing the frequency display reading step by step or slowly to monitor the frequency.

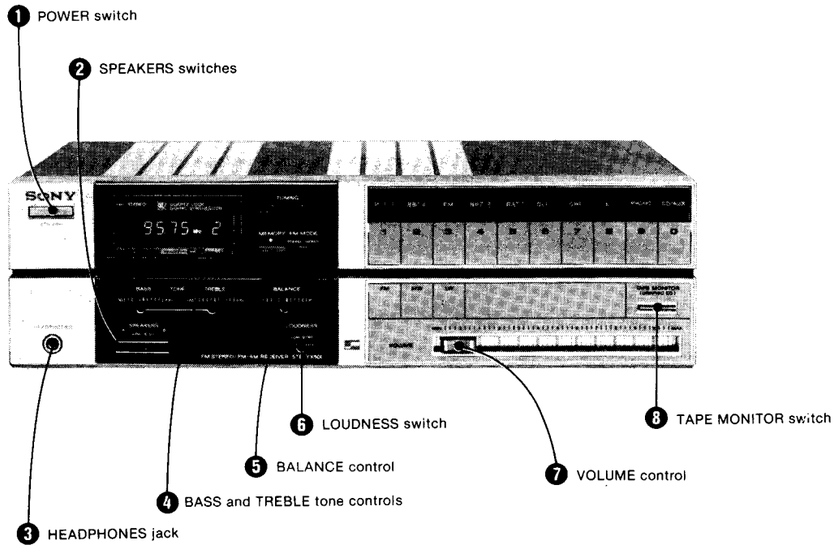
Memory preset tuning : a desired pre-memorized station can be instantly received by pressing the PRESET TUNING button.

- The pre-memorized stations are retained in memory by two back-up batteries when the power is turned off. These back-up batteries also allow the last station tuned in to be held in memory.

SECTION 1
LOCATION AND FUNCTION OF CONTROLS

Before plugging in or attempting to operate this receiver,
it is suggested that you familiarize yourself with all its switches and the purpose of each.
Each number in the photo is keyed to the descriptive text.

Amplifier section



1 POWER switch
Depress to turn on the power. To turn the power off, press the switch again.

2 SPEAKERS switches
To drive speaker system A, depress the A switch.
To drive speaker system B, depress the B switch.
To drive both speaker systems A and B, depress both A and B switches.

3 HEADPHONES jack
Accepts any low or high impedance stereo headphones.
For headphone monitoring only, keep the SPEAKERS switches OFF.

4 BASS and TREBLE TONE controls
These levers control the bass and treble response. Sliding the levers towards +10 increases the response and sliding them towards −10 decreases it. The center position provides a flat response.
Adjust the tone to the acoustic conditions in your listening room or to your preference.

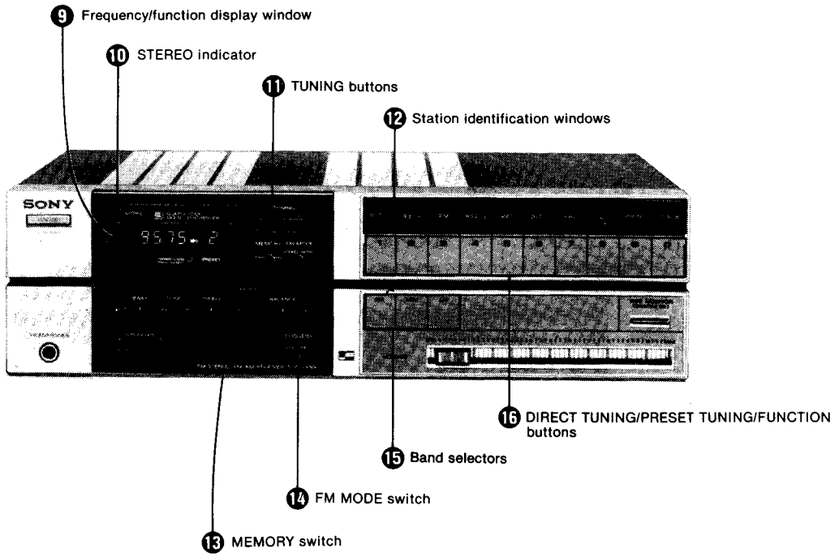
5 BALANCE control
Governs the amount of sound coming from each paired speaker to get optimum stereo effect. When you slide the BALANCE control to the right, the left channel volume is decreased, and vice versa.

6 LOUDNESS switch
Normally keep the switch released (⊓ OFF). When listening to program sources at a low VOLUME control setting, depress the switch (⊓ ON).
This loudness control compensates for the human ear's decreased response to very low and high frequency sound at low volume levels, and provides an apparently uniform response. The effect of this control gradually decreases as the volume is increased by the VOLUME control.

7 VOLUME control
Regulates the overall sound level.
Sliding the lever to the right increases the volume and sliding it to the left decreases the volume. Be sure to lower the volume whenever you turn the receiver on or off or make system connections.

8 TAPE MONITOR switch
To listen to a taped program, depress this switch. The built-in lamp will light up, indicating that a playback output from the tape recorder connected to the TAPE jacks can be heard.

Tuner section



9 Frequency/function display window

During broadcast reception

During reproduction of record source or auxiliary input source

10 STEREO indicator
This indicator will light when an FM stereo program of sufficient signal strength is tuned in with the FM MODE switch engaged.

11 TUNING buttons
Press either the "+" or "–" button to change the frequency : Press the "–" button to go to a lower frequency and the "+" button to go to a higher.
During FM reception :
Press to start the automatic frequency scanning (in 0.05 MHz steps).
During AM reception :
Press and keep the button depressed to change the frequency continuously. To change the frequency rapidly, press and release the button immediately.

12 Station identification windows
Station labels (supplied) identifying pre-memorized stations can be placed in these windows.

13 MEMORY switch
Press to operate memory circuit. The "0" indicator will appear on the frequency/function display window for a few seconds indicating that the memory circuit is standing by.

14 FM MODE switch
During FM reception, when a stereo signal of sufficient strength is received, the receiver operates in the stereo mode. (The STEREO indicator will illuminate.)
When you want to tune in a very weak FM station, or when an FM program is too noisy, press this switch. (The STEREO indicator illumination will go out.) Press it again to return to the stereo mode. The mode will automatically return to the stereo mode when the frequency is changed.

15 Band selectors
Depress the appropriate selector to select the desired band : FM, MW or LW (for the STR-YX50L) or AM (for the STR-YX50).

16 DIRECT TUNING/PRESET TUNING/FUNCTION buttons
Press the buttons according to the following desired purposes.
The pressed figures will be displayed on the frequency/function display window.
For direct access tuning
(the 1 to 0 buttons serve as DIRECT TUNING buttons)
To tune in the frequency directly, press the band selector and the buttons.
For memory preset tuning
(the 1 to 8 buttons serve as PRESET TUNING buttons)
To call up a prememorized station, press the appropriate button.
For reproduction of record and auxiliary sources
(the 9 and 0 buttons serve as FUNCTION buttons)
Press to select between PHONO(9) or CD/AUX(0).

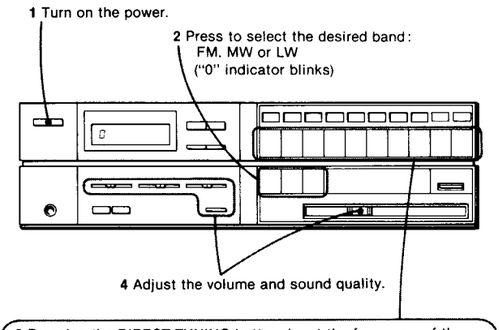
SECTION 2
OUTLINE

BROADCAST RECEPTION

This receiver incorporates the following turning systems which give the listener a choice of four ways in which to tune in the desired broadcast.

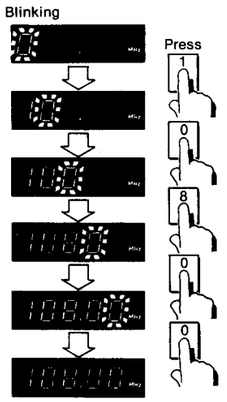
Direct access tuning	If you know the frequency of the station to be received, you can tune in the station easily by this system.
Auto tuning (for FM reception) Manual tuning (for AM reception)	These systems are convenient for receiving a station whose frequency has not been memorized, or to see what kind of programs are on the air.
Memory preset tuning	Once you program the frequencies into the memory, all you need to the tune in a station is to press the appropriate button.

DIRECT ACCESS TUNING
Follow the numbered sequence.

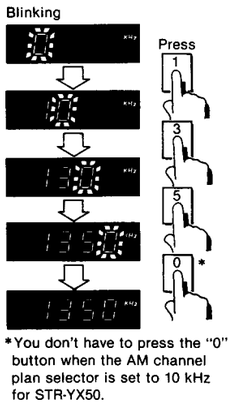


3 Pressing the DIRECT TUNING button, input the frequency of the station to be recived.

Example 1 : FM 108.00 MHz



Example 2 : AM 1,350 kHz



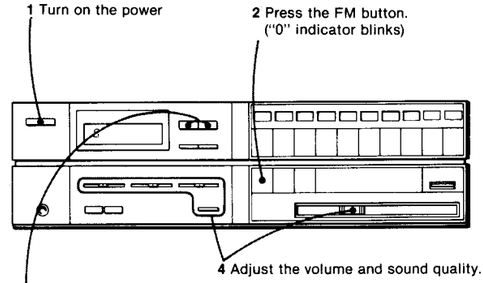
*You don't have to press the "0" button when the AM channel plan selector is set to 10 kHz for STR-YX50.

You can now hear the station whose frequency you have just input.

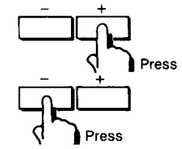
When the wrong frequency is input
- If you mistakenly press a wrong figure, press the appropriate band selector again and input the correct frequency.
- If you input a frequency outside the reciver's frequency range (FM : 87.5 to 108 MHz, MW : 530 to 1610 kHz or 522 to 1602 kHz, LW : 153 to 344 kHz), the figures will flash on and off in the frequency/function display. In this case, press the appropriate band selector and input the proper frequency.

Notes on the AM direct access tuning
The last digit of the AM station frequency is always displayed according to the set AM frequency allocation system for STR-YX50L and STR-YX50 with its channel plan selector set to 9 kHz. For example, even if you press the DERECT TUNING buttons 1, 3, 6, 7, "1368 kHz" will be displayed in the frequency/function display window.

AUTOMATIC TUNING (for FM reception)
Follow the numbered sequence.



3 Press the + or – TUNING button to start automatic frequency scanning. There is no need to hold the button down.

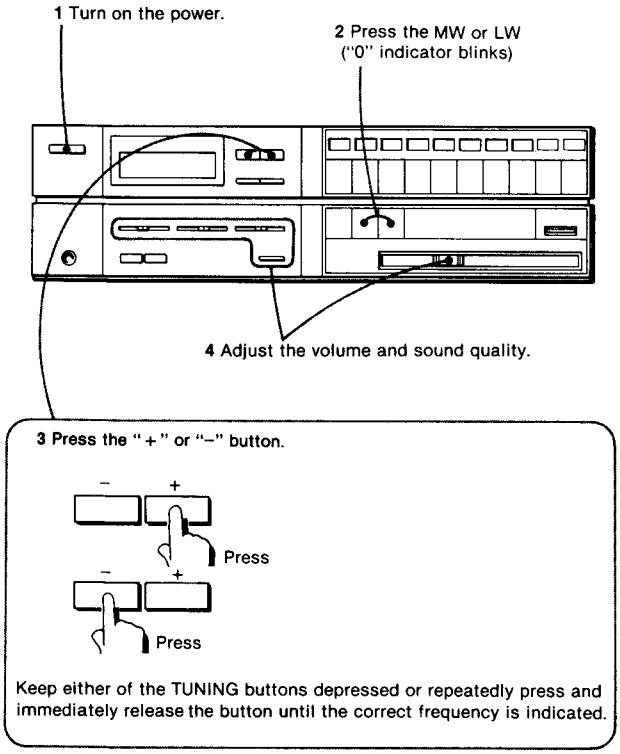


The frequency figures will change rapidly and stop when a signal is received. If the received signal is not the desired one, press the button again.
To stop the automatic tuning, press the MEMORY switch.

If the signal strength is weak, the frequency display figures will not stop at the desired frequency. When this happens, adjust the antenna for optimum reception. If the signal strength is still too weak for automatic tuning, tune in the station as described in "DIRECT ACCESS TUNING".

When the frequency figures reach the end of the tuning range of each band, the frequency will then be scanned from the opposite end of the tuning range.

MANUAL TUNING (for AM reception)
Follow the numbered sequence.

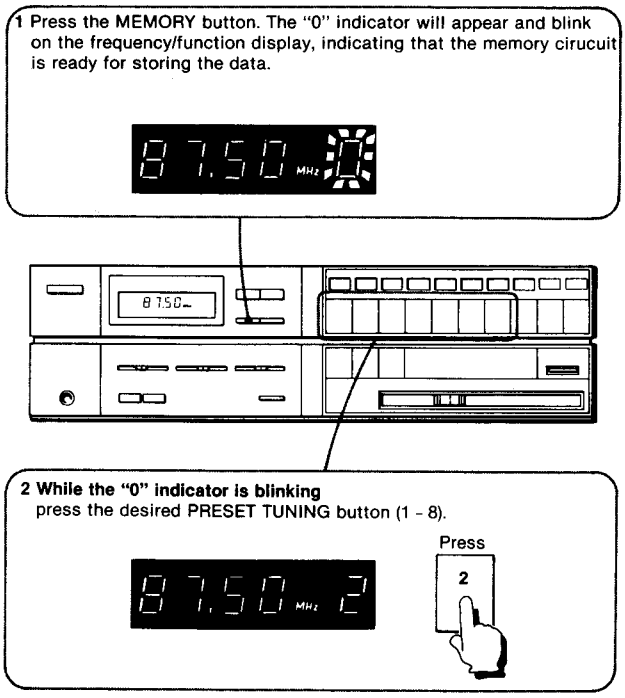

1 Turn on the power.
2 Press the MW or LW ("0" indicator blinks)
4 Adjust the volume and sound quality.
3 Press the "+" or "–" button.
Press
Press

Keep either of the TUNING buttons depressed or repeatedly press and immediately release the button until the correct frequency is indicated.

To quickly tune in a roughly known frequency
You can quickly tune in an FM or AM station whose frequency is roughly known by combining the TUNING button operation with direct access tuning. Input the approximate frequency with the direct access tuning, then press either the "+" or "–" button. For example, if you believe your station is between 700 and 800 kHz, input 7 and press the "+" button, or input 8 and press the "–" button.

MEMORY PRESET TUNING
A total eight FM or AM stations or a combination of both can be preset in any sequence.

To memorize station frequencies
To memorize a station, first tune in the station then follow the numbered sequence.


1 Press the MEMORY button. The "0" indicator will appear and blink on the frequency/function display, indicating that the memory cirucuit is ready for storing the data.
2 While the "0" indicator is blinking
press the desired PRESET TUNING button (1 - 8).
Press
2

Repeat these steps for each button.
Replace the station labels to conform to the selected pre-memorized stations. See "STATION LABEL INSERTION" on page 8.

Notes
- The "0" indicator will go off automatically after a few seconds. When the indicator is out, the memory circuit does not operate to memorize the station.
- The previous memory will be erased when a new frequency is programmed in to the memory of the same button. An erasure cannot be made without a new input.

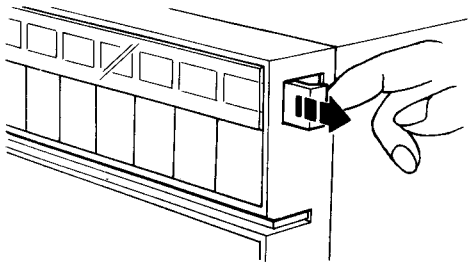
To receive a pre-memorized station
Turn the POWER switch on and simply press the desired PRESET TUNING button.

Memory of the last received station
This receiver includes a memory circuit to remember the station which had been received for more than one second just before the power was turned off. This station will be automatically tuned in when the power is turned on again. This memory system enables you to make a timer-activated recording from the receiver.

STATION LABEL INSERTION

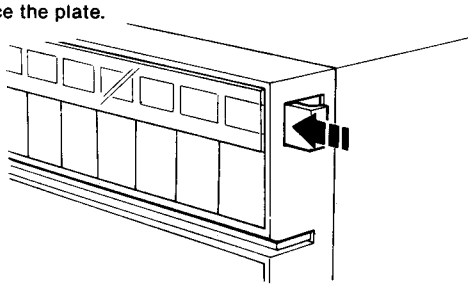
Station labels are supplied for identification of the preset stations. Affix the labels as follows :

1 Pull out the station identification plate from its slot on the right side.



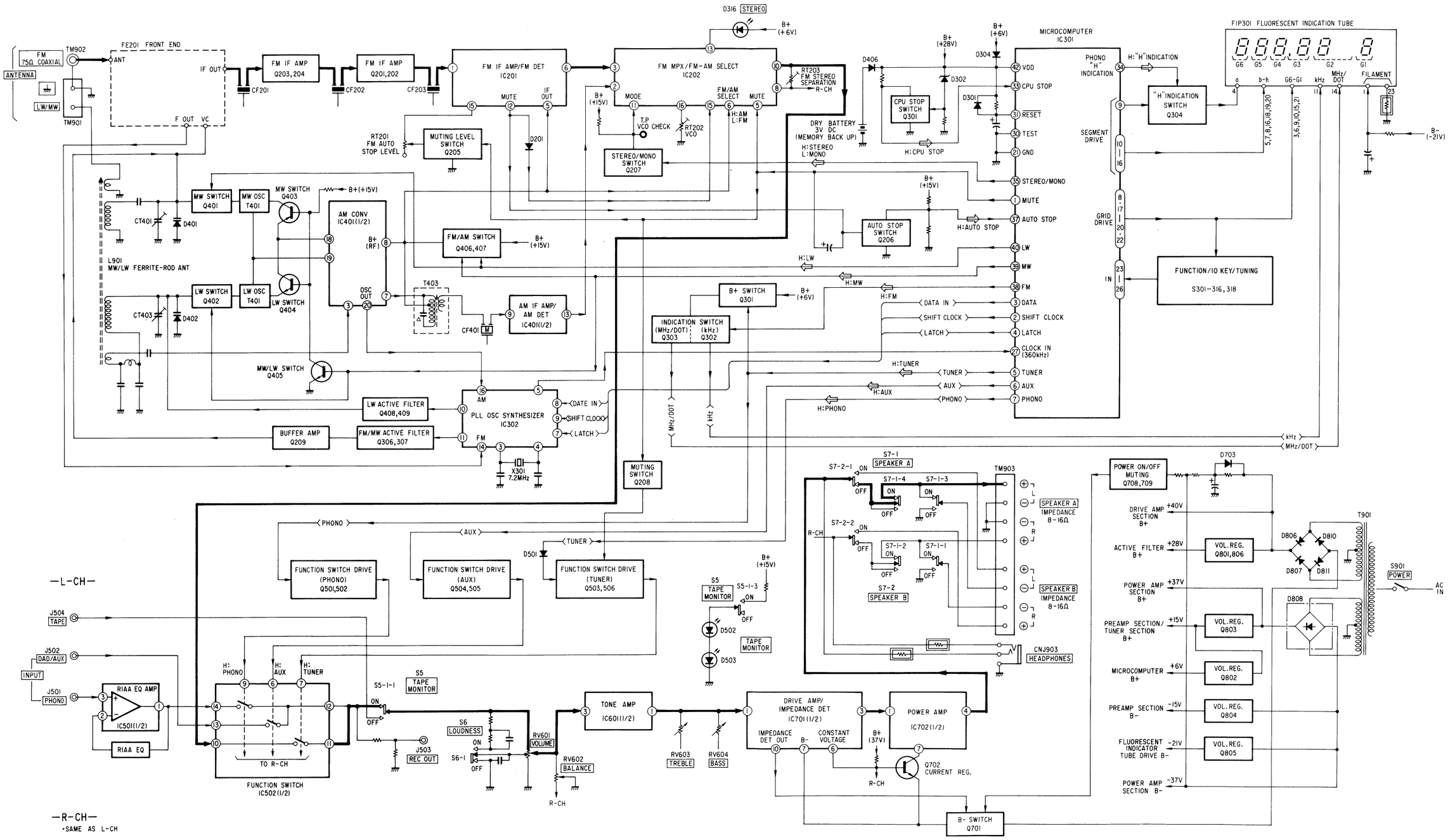
2 Peel off the appropriate labels for the pre-memorized stations and put them on the plate as shown in the correct order.

3 Replace the plate.



Check that the station labels match the pre-memorized stations by tuning in to each station.

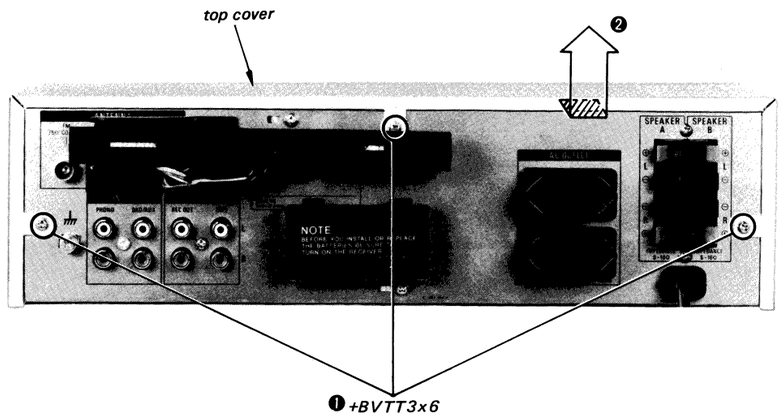
BLOCK DIAGRAM



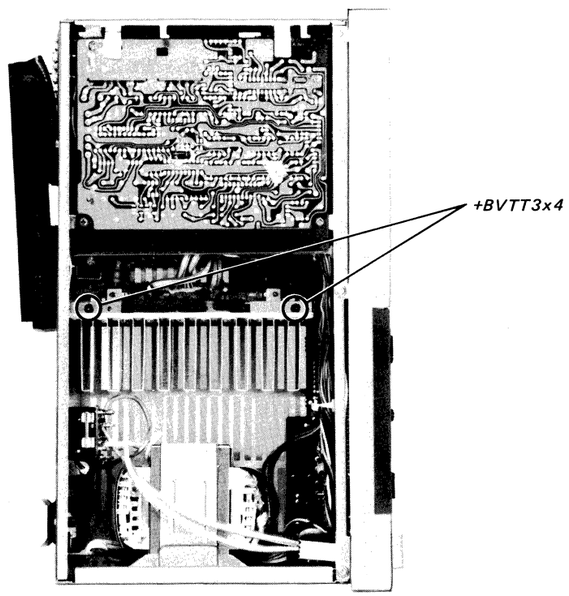
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

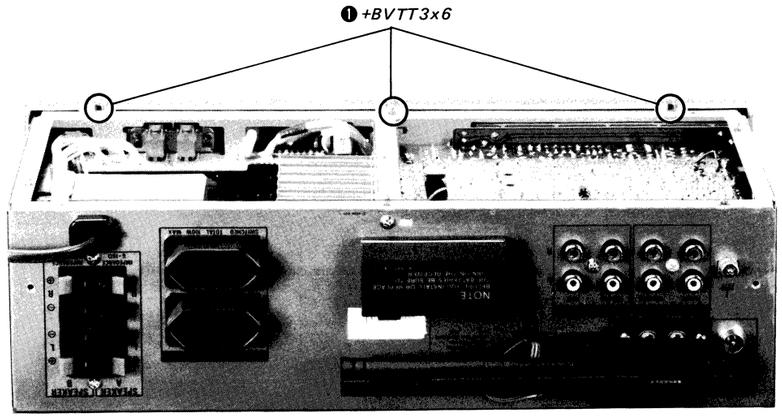
TOP COVER

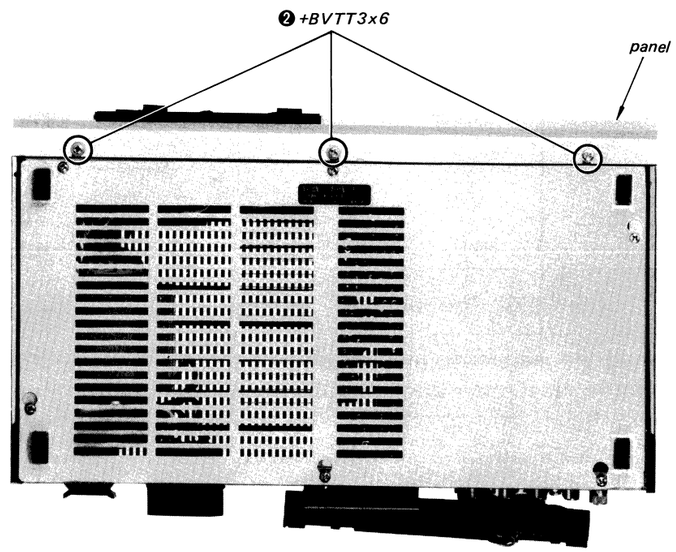


HEAT SINK, IC BOARD REMOVAL

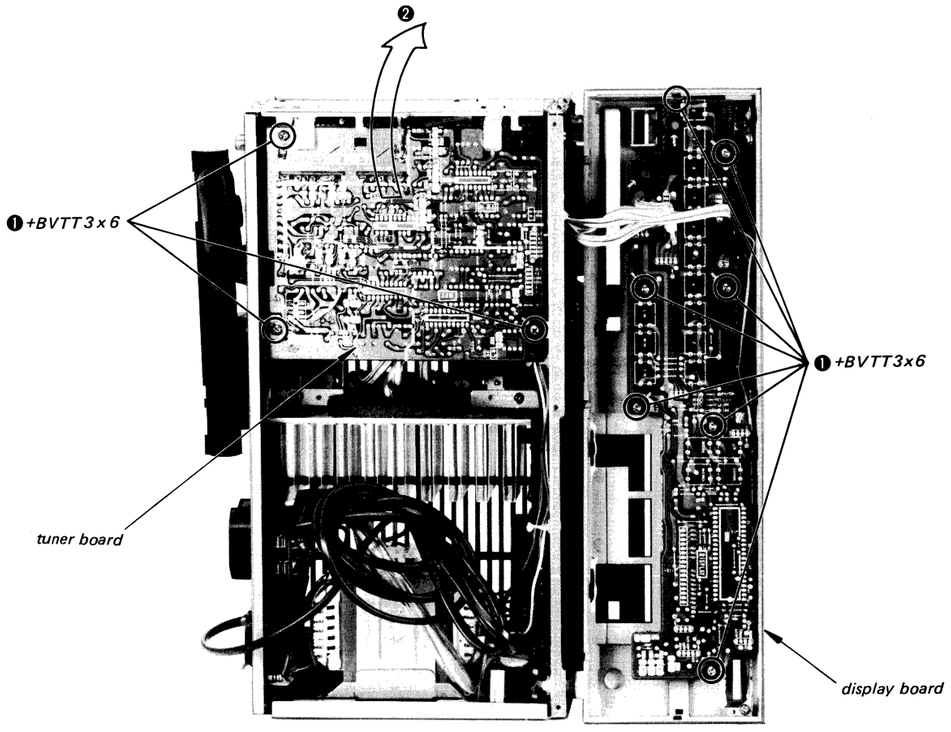


PANEL REMOVAL

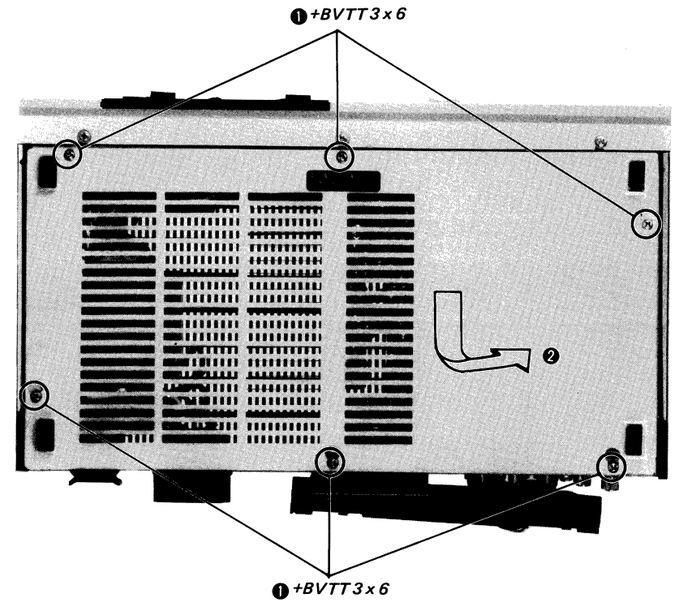


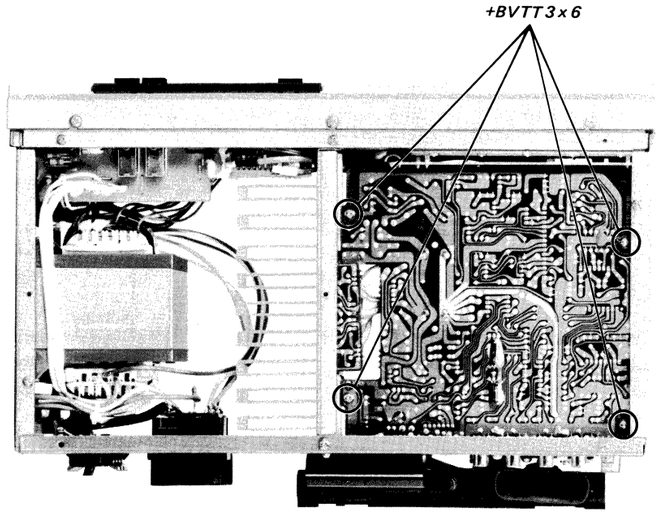


TUNER BOARD, DISPLAY BOARD REMOVAL



AUDIO BOARD REMOVAL



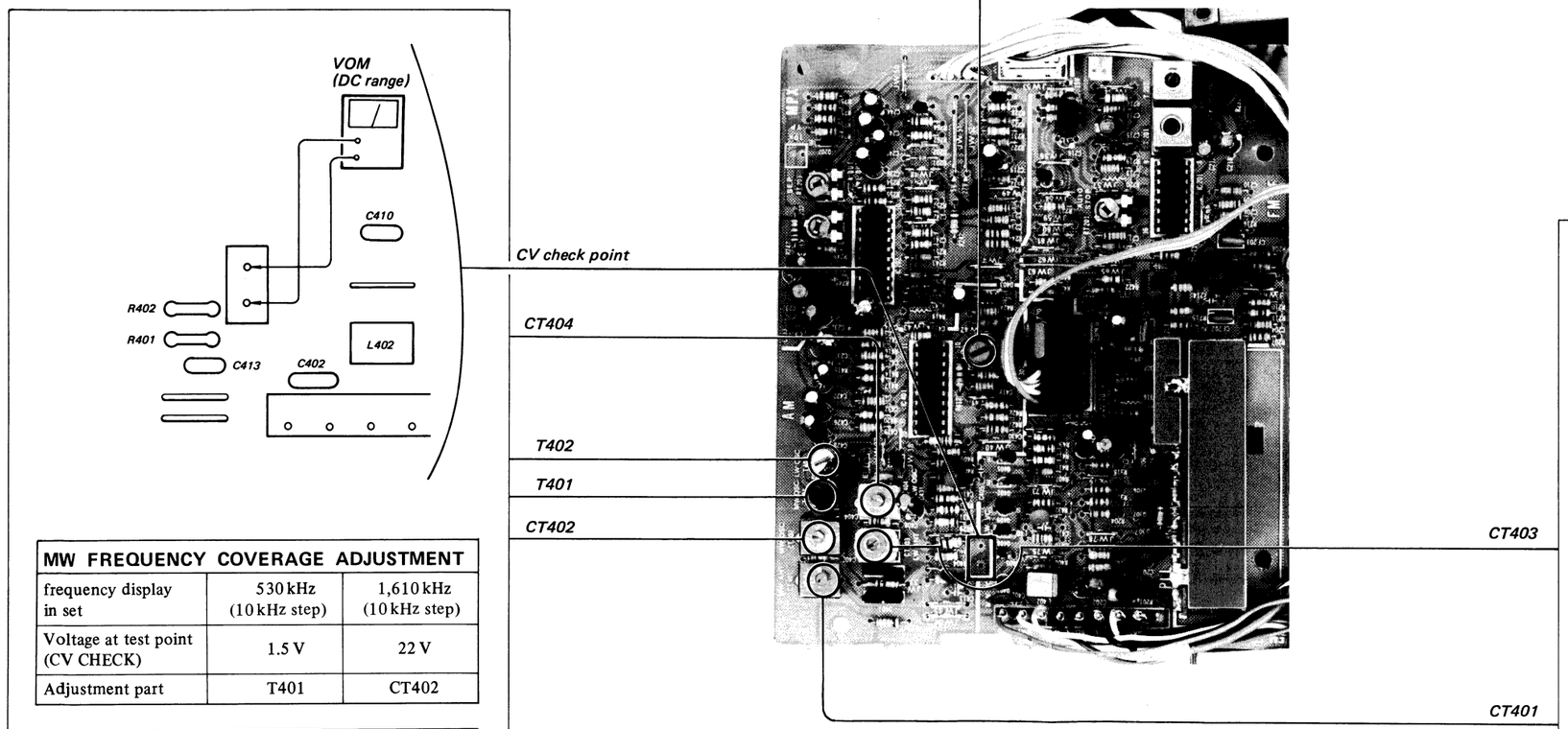


SECTION 4
ADJUSTMENTS

AM SECTION

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

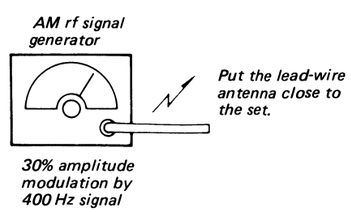
AM IF ALIGNMENT	
Adjust for a maximum reading on VOM.	
450 kHz	T403

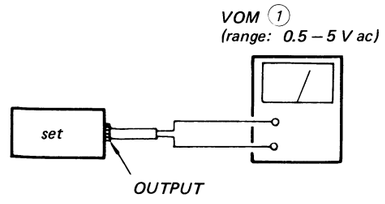


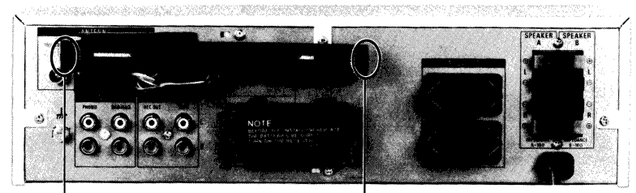
MW FREQUENCY COVERAGE ADJUSTMENT		
frequency display in set	530 kHz (10 kHz step)	1,610 kHz (10 kHz step)
Voltage at test point (CV CHECK)	1.5 V	22 V
Adjustment part	T401	CT402

LW FREQUENCY COVERAGE ADJUSTMENT		
frequency display inset	155 kHz (1 kHz step)	344 kHz (1 kHz step)
Voltage at test point (CV CHECK)	2.3 V	18.5 V
Adjustment part	T402	CT404

Setting:

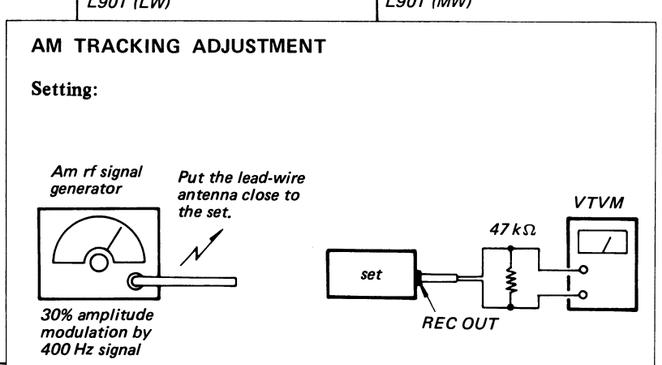






AM TRACKING ADJUSTMENT

Setting:



Procedure:

1. Tune the set to the SG signal.
2. Adjust for a maximum reading on VTVM.

MW

	SG and set frequency	Adjustment part	Reading on VTVM
1.	600 kHz	core of L901	Maximum
2.	1,400 kHz	CT401	

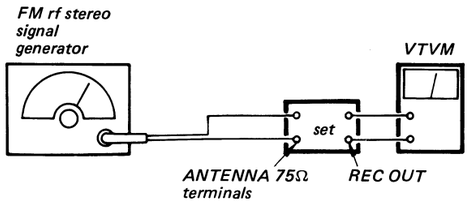
LW

	SG and set frequency	Adjustment part	Reading on VTVM
1.	170 kHz	core of L901	Maximum
2.	310 kHz	CT403	

FM SECTION

FM Stereo Separation Adjustment

Procedures:



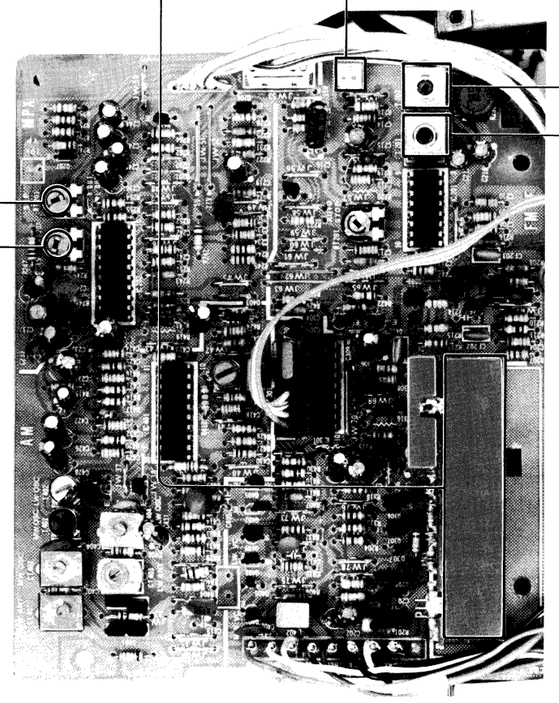
Carrier frequency: *98 MHz*
Output level: *1 mV (60 dB)*
Modulation
Audio 400 Hz: *16.25 kHz deviation*
Sub channel 38 kHz: *16.25 kHz deviation*
Pilot signal 19 kHz: *7.5 kHz deviation*

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT203 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT203 for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.

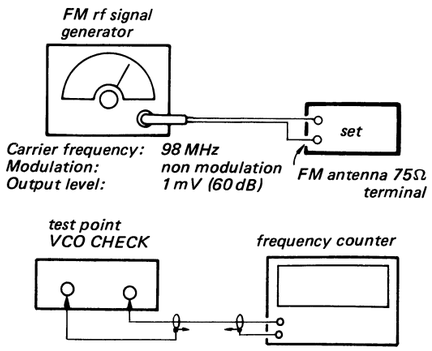
The FM front-end is carefully adjusted as the factory and is supplied as one whole block for replacement.



VCO Adjustment

A) Regular Method

Procedure:



1. Tune the set to 98 MHz.
2. Adjust RT202 for 19 kHz ±50 Hz on the counter.

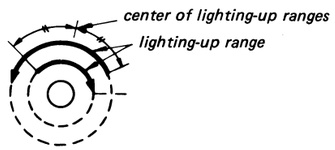
Simple Method

Procedure:

Tune the set to the FM stereo broadcasting signal.

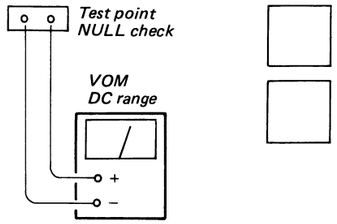
Turn RT202 clockwise or counterclockwise and memorize the lighting-up range of stereo lamp.

Secure RT202 at the center of the lighting-up range of both turns as shown below.



FM Discriminator Adjustment 1

Setting:



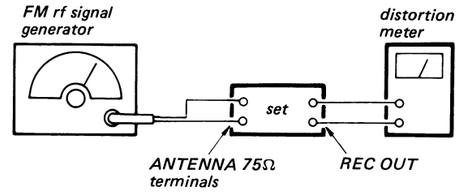
Procedure:

1. Tune the set in the strong station-signal.
2. Adjust the black core (primary-side) of T201 for 0V reading on VOM.

Note: When replacing the ceramic filter perform this alignment.

FM Discriminator Alignment 2

Setting:



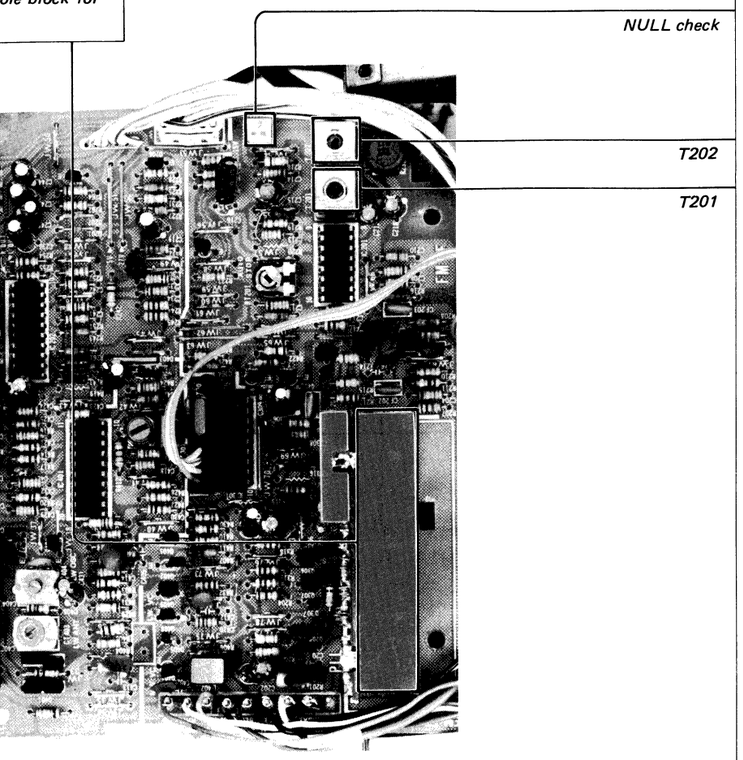
Carrier frequency: *98 MHz*
Modulation: *400 Hz, 40 kHz deviation (100%)*
Output level: *10μV (20 dB)*

Procedure:

Adjust the white core (secondary side) of T202 for minimum distortion.

Note: When replacing the ceramic filter, perform this alignment.
Repeat the secondary-side and primary-side alignments several times.

justed as the ole block for



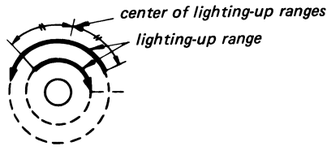
Simple Method

Procedure:

Tune the set to the FM stereo broadcasting signal.

Turn RT202 clockwise or counterclockwise and memorize the lighting-up range of stereo lamp.

Secure RT202 at the center of the lighting-up range of both turns as shown below.



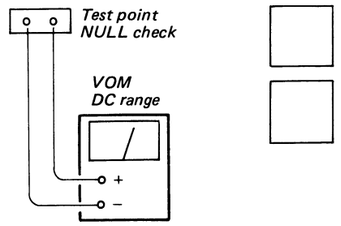
nna 75Ω terminal

unter

50 Hz on the

FM Discriminator Adjustment 1

Setting:



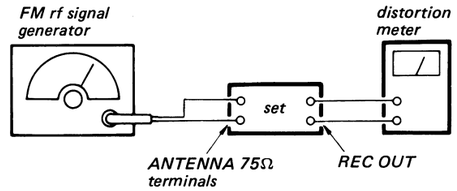
Procedure:

1. Tune the set in the strong station-signal.
2. Adjust the black core (primary-side) of T201 for 0V reading on VOM.

Note: When replacing the ceramic filter perform this alignment.

FM Discriminator Alignment 2

Setting:

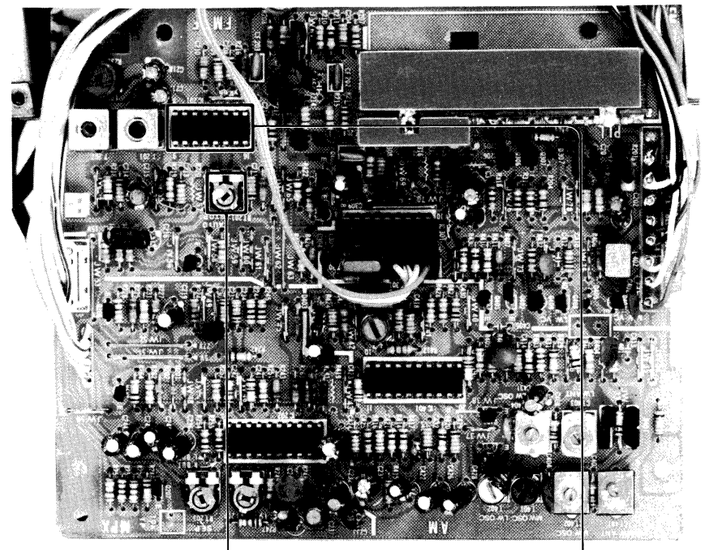


Carrier frequency: *98 MHz*
Modulation: *400 Hz, 40 kHz deviation (100%)*
Output level: *10μV (20 dB)*

Procedure:

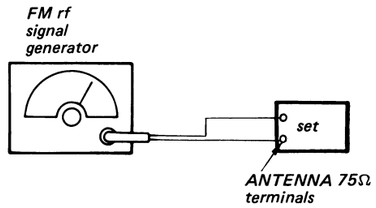
Adjust the white core (secondary side) of T202 for minimum distortion.

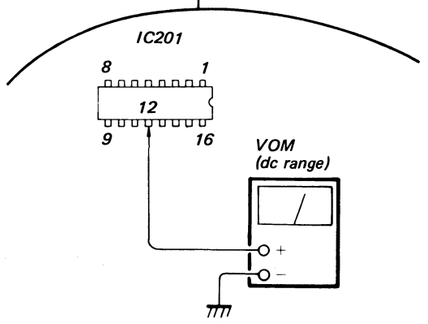
Note: When replacing the ceramic filter, perform this alignment.
Repeat the secondary-side and primary-side alignments several times.



FM Auto Stop Level Adjustment

Setting:





Procedure:

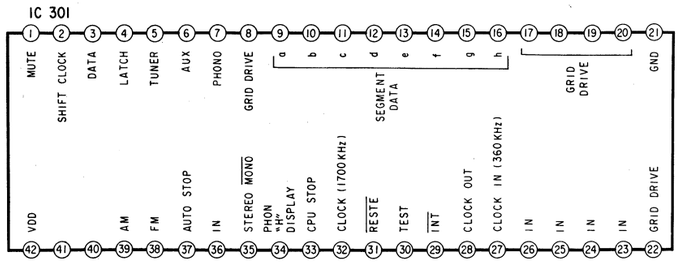
Carrier frequency: *98 MHz*
Modulation: *400 Hz, 40 kHz deviation (100%)*
Output level: *56μV (35 dB)*

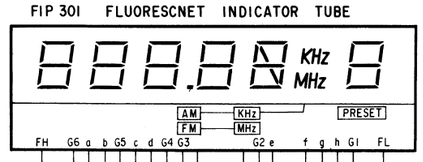
1. Tune the set to 98 MHz by pressing the TUNING buttons.
2. Adjust RT201 to the position where the VOM reading changes from 5.8 V to 0 V.

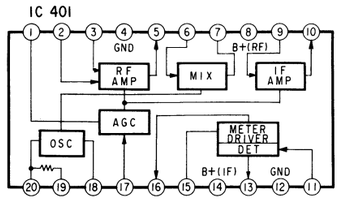
5-1. MOUNTING DIAGRAM

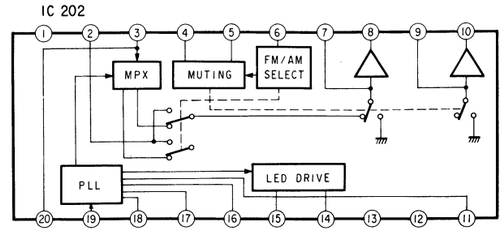
• See page 27 for semiconductor lead layouts.

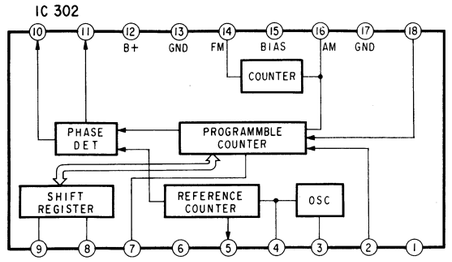
– Tuner Board –

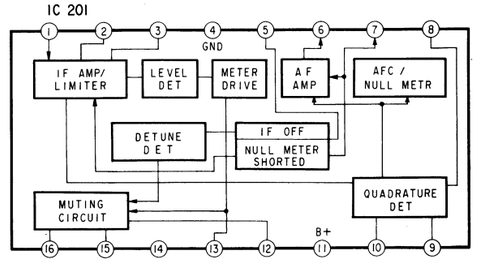


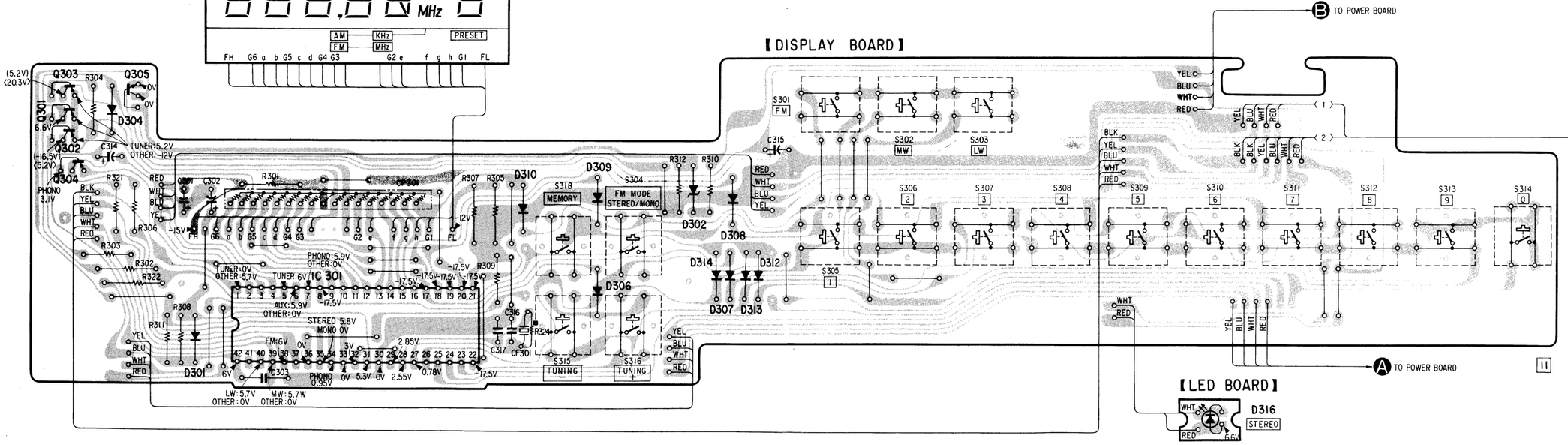


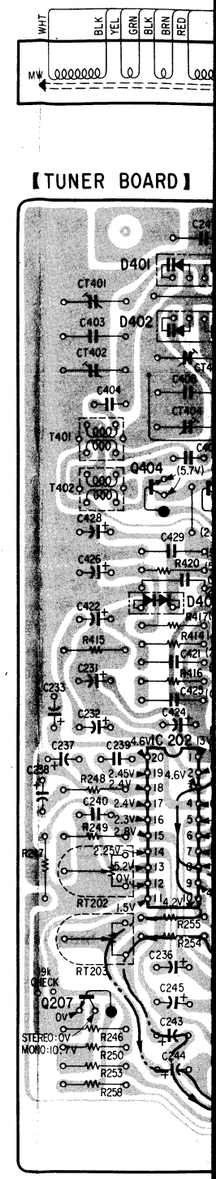










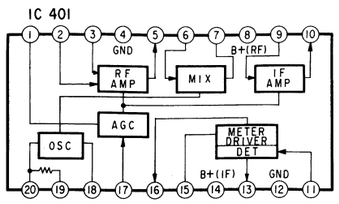


303 301 305
302 304
IC 301
304
301
310
309
306
302 308
314 313
307 312
316
404
IC 202
207
404 40

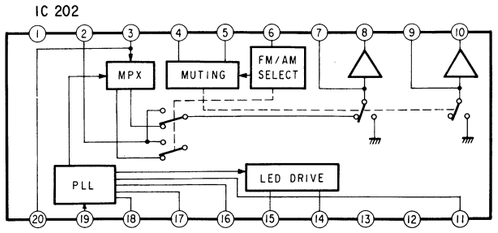
D E F G H I J K L

1 2 3 4 5

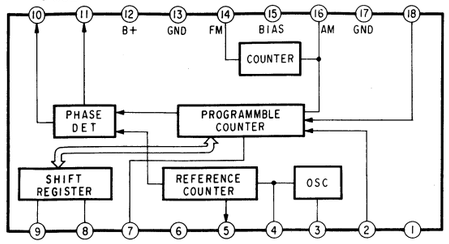
IC 401



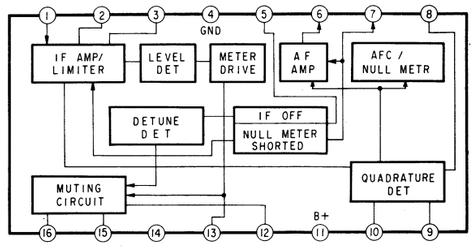
IC 202



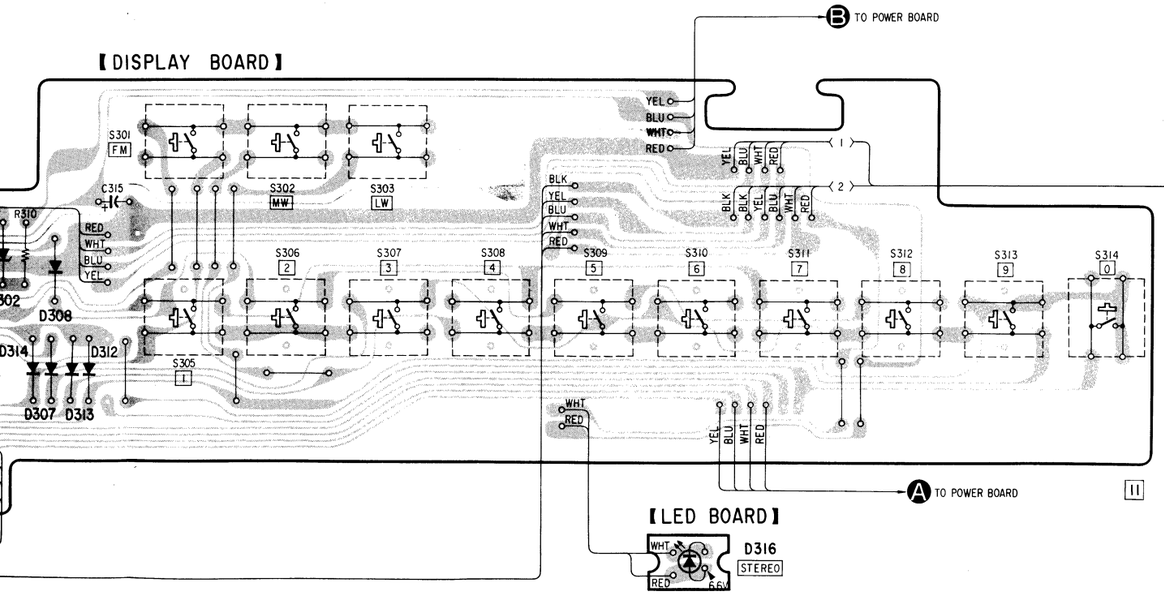
IC 302



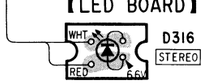
IC 201

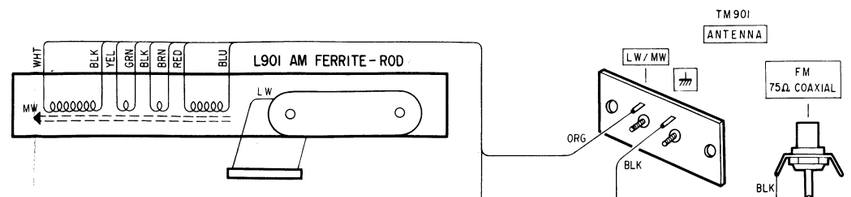


【DISPLAY BOARD】

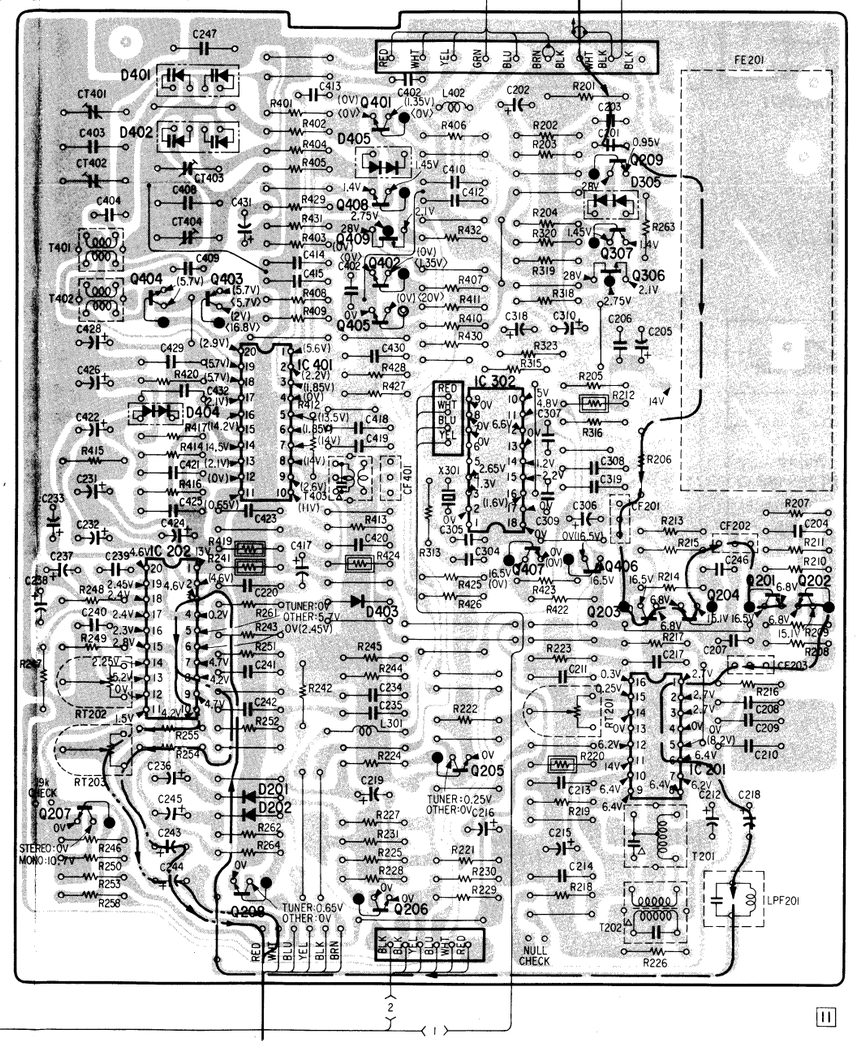


【LED BOARD】





【TUNER BOARD】



Note:

- ⟩— : parts extracted from the component side.
- —⟨ : parts extracted from the conductor side.
- ▒ : B + pattern
- ⟩—⟨ : signal path
- ⟩—·—⟨ : L-CH signal path
- ⟩—··—⟨ : R-CH signal path

207	404 403 IC202 208	408 401 409 402 405 IC302 407 406 209 307 306 203 204 IC201 206 205 201 202	Q・IC
02 308 314 313 307 312 316	401 404 402 201 202	405 403 305	D

5-2. SCHEMATIC DIAGRAM

— Tuner Board —

【TUNER BOARD】

IC 201 LA1235 FM IF AMP/DET

IC202 LA3390 FM MPX/FM-AM SELECT

Q207 2SC2458 STEREO MONO SELECT SWITCH

Q209 2SC2458 BUFFER AMP

Q201 – 204 2SC710 FM IF AMP

IC 401 LA1245 AM COMV/IF AMP/DET

Q205 2SC2458 MUTING LEVEL SWITCH

D201 1S1555

Q206 2SC2458 AUTO STOP SWITCH

D403 1S1555

Q406 2SA1048
Q407 2SC2458
FM/AM SWITCH

D404 MV-I2N

D401 – 402 KV1226

Q401, 402, 404, 405 2SC2458 Q403 2SA1048
MW/LW SWITCH

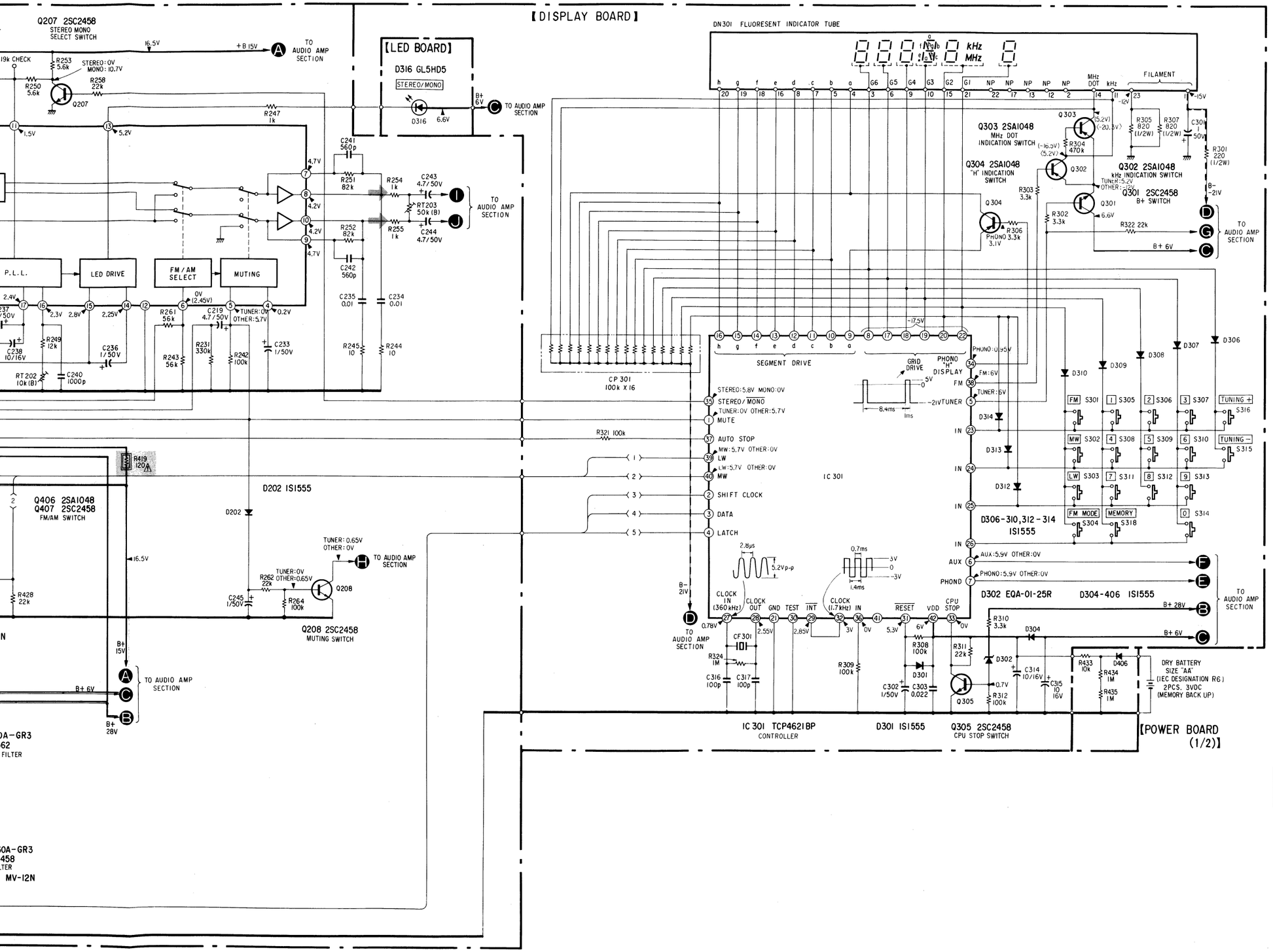
IC 302 CX778A
PLL OSC SYNTHESIZER

Q306 2SK30A-GR3
Q307 2SC1362
FM/MW ACTIVE FILTER

Q409 2SK30A-GR3
Q408 2SC2458
LW ACTIVE FILTER

D305, 405 MV-I2N

H I J K L M N O P



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- ▭ : nonflammable resistor.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ——— : B+ bus.
- – – – : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  : FM
  ( ) : MW
  < > : LW
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S301	FM	OFF
S302	MW	OFF
S303	LW	OFF
S304	FM MODE	OFF
S305	1	OFF
S306	2	OFF
S307	3	OFF
S308	4	OFF
S309	5	OFF
S310	6	OFF
S311	7	OFF
S312	8	OFF
S313	9 PHONO	OFF
S314	0 DAD/AUX	OFF
S315	TUNING -	OFF
S316	TUNING +	OFF
S318	MEMORY	OFF
S401	AM CH. SPACE	10K

- ● ➡ : signal path

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

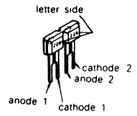
Note: Voltages are measured with a VOM (50kΩ/V).

1 2 3 4 5

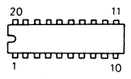
• Semiconductor Lead Layouts

1S1555
RD7.5E-B1

KV1226

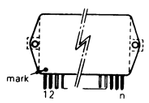


LA3390
LA1245



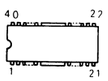
(Top view)

STK-2129



(Marking side view)

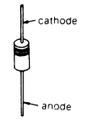
TCP4621BP6502



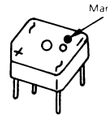
(Top view)

2SC1362

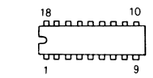
EQB01-16
EQB01-21
EQB01-28



S4VB40

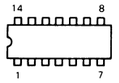


CX-778A



(Top view)

CX770A

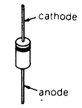


(Top view)

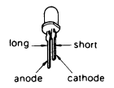
2SD880

2SB734

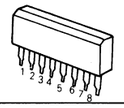
EQA01-25R
10E-2



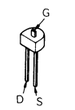
GL-5HD5
GL-5NY55



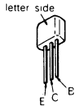
M5218L



2SC710-14

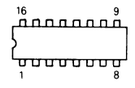


2SC2458



MV-12N

LA1235

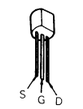


(Top view)

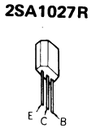
STK-3041

(Marking side view)

2SK30A-GR2
2SK30A-GR3



2SA1027R

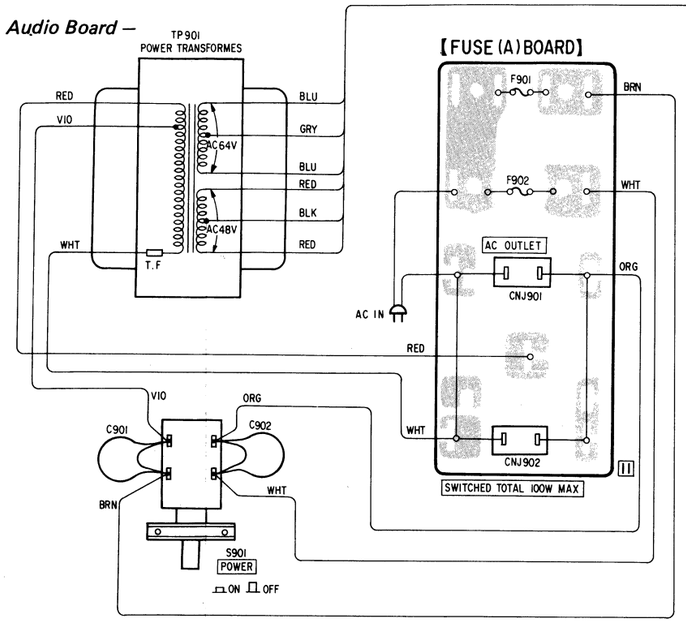


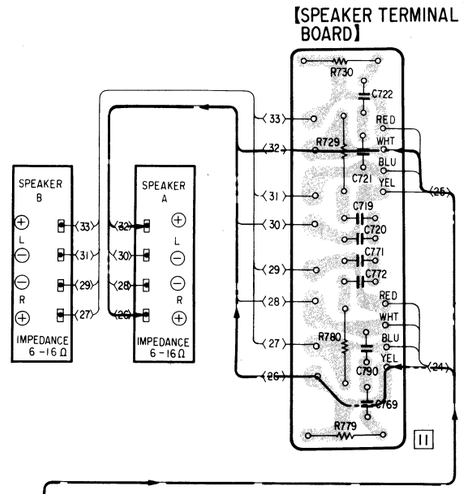
A | B | C | D | E | F

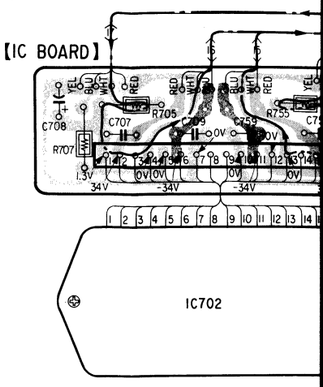
1 | 2 | 3 | 4 | 5

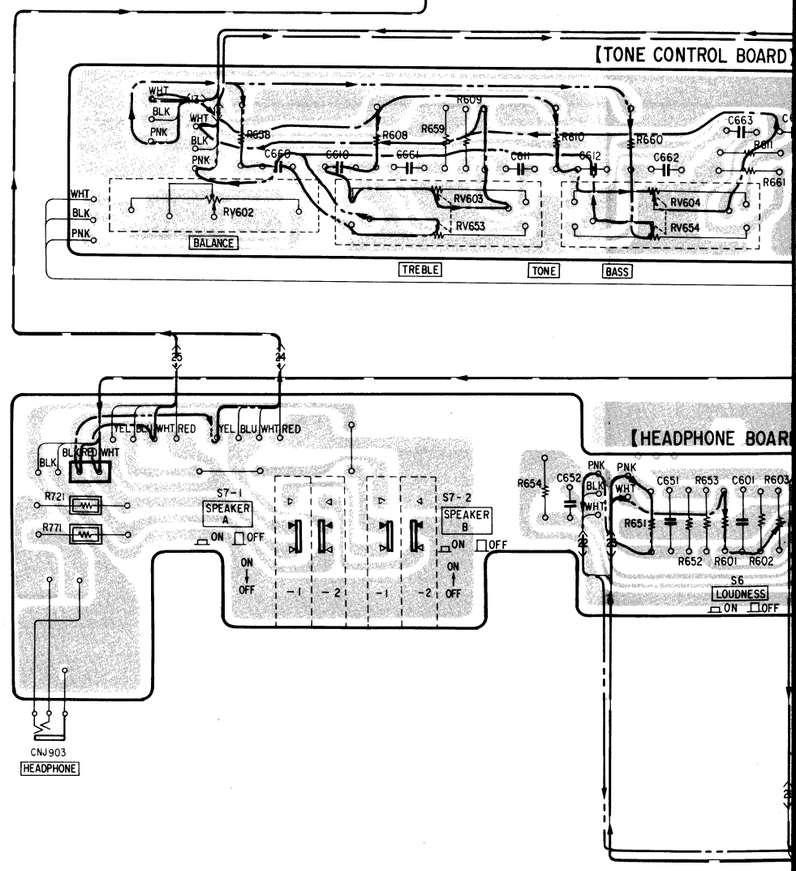
5-3. MOUNTING DIAGRAM

– Audio Board –









Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- : B + pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

Q, IC	IC702
D	

E F G H I J K L M

1 2 3 4 5

【IC BOARD】

IC702

【TONE CONTROL BOARD】

TONE BASS

【HEADPHONE BOARD】

S6 LOUDNESS ON OFF

【POWER BOARD】

IC601 IC701 IC501 IC502 Q501 Q502 Q503 Q504 Q505 Q506 Q701 Q702 Q709 Q752 Q801 Q802 Q803 Q804 Q806 D501 D502 D503 D701 D703 D801 D802 D803 D804 D805 D806 D807 D808 D406 CP801 CP803

TO DISPLAY BOARD

TO TUNER BOARD

【VOLUME BOARD】

RV601 VOLUME RV651

IC501,601

IC701

IMPEDANCE DET

IMPEDANCE DET

INPUT PHONO DAD/AUX CNJ501 CNJ502 CNJ 551 CNJ 552

TAPE REC OUT TAPE CNJ503 CNJ504 CNJ 553 CNJ 554

IC502

IC702

【TAPE SWITCH BOARD】

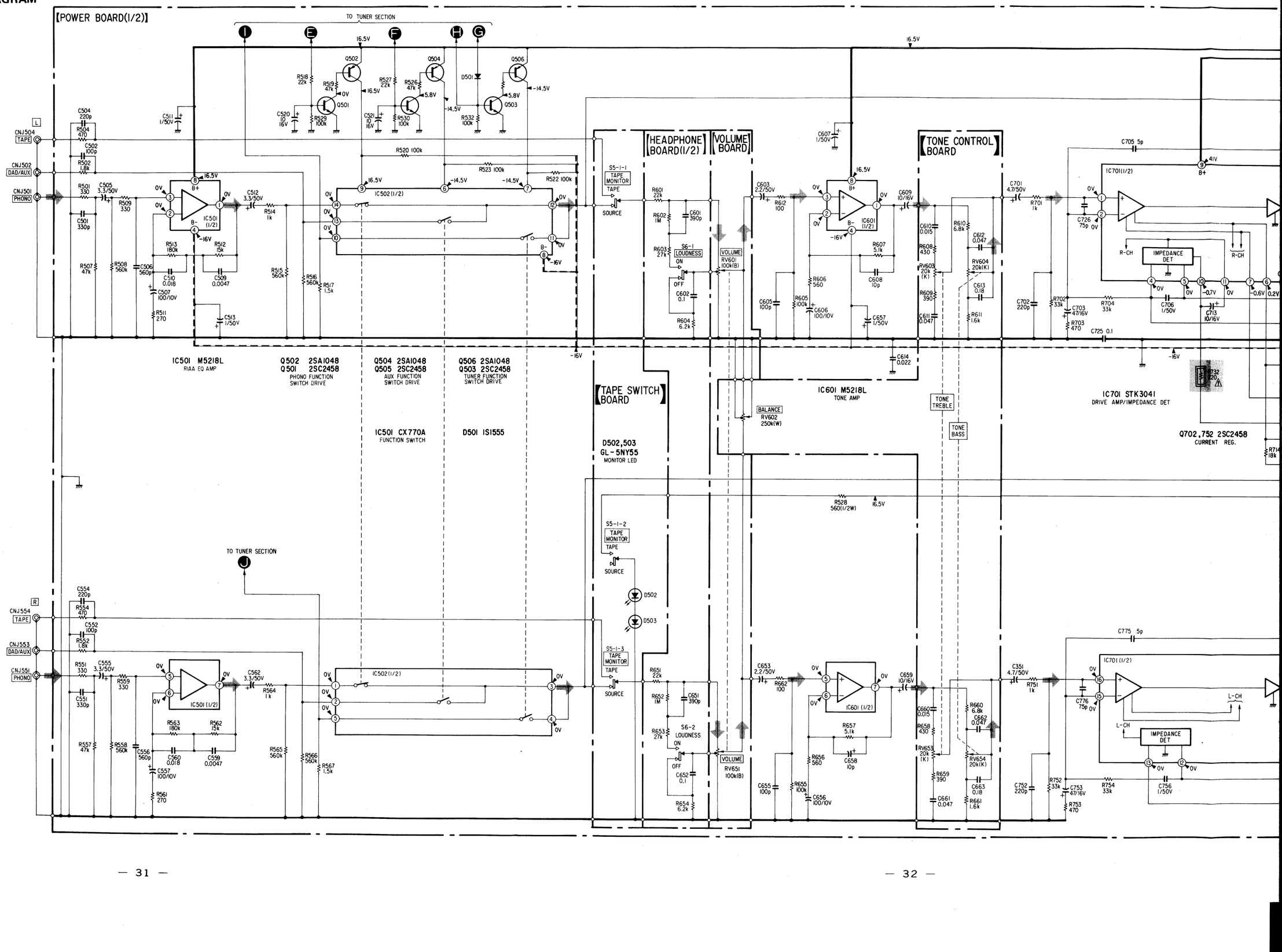
TAPE SOURCE S5-1 TAPE MONITOR GRAPHIC EQ D502 D503

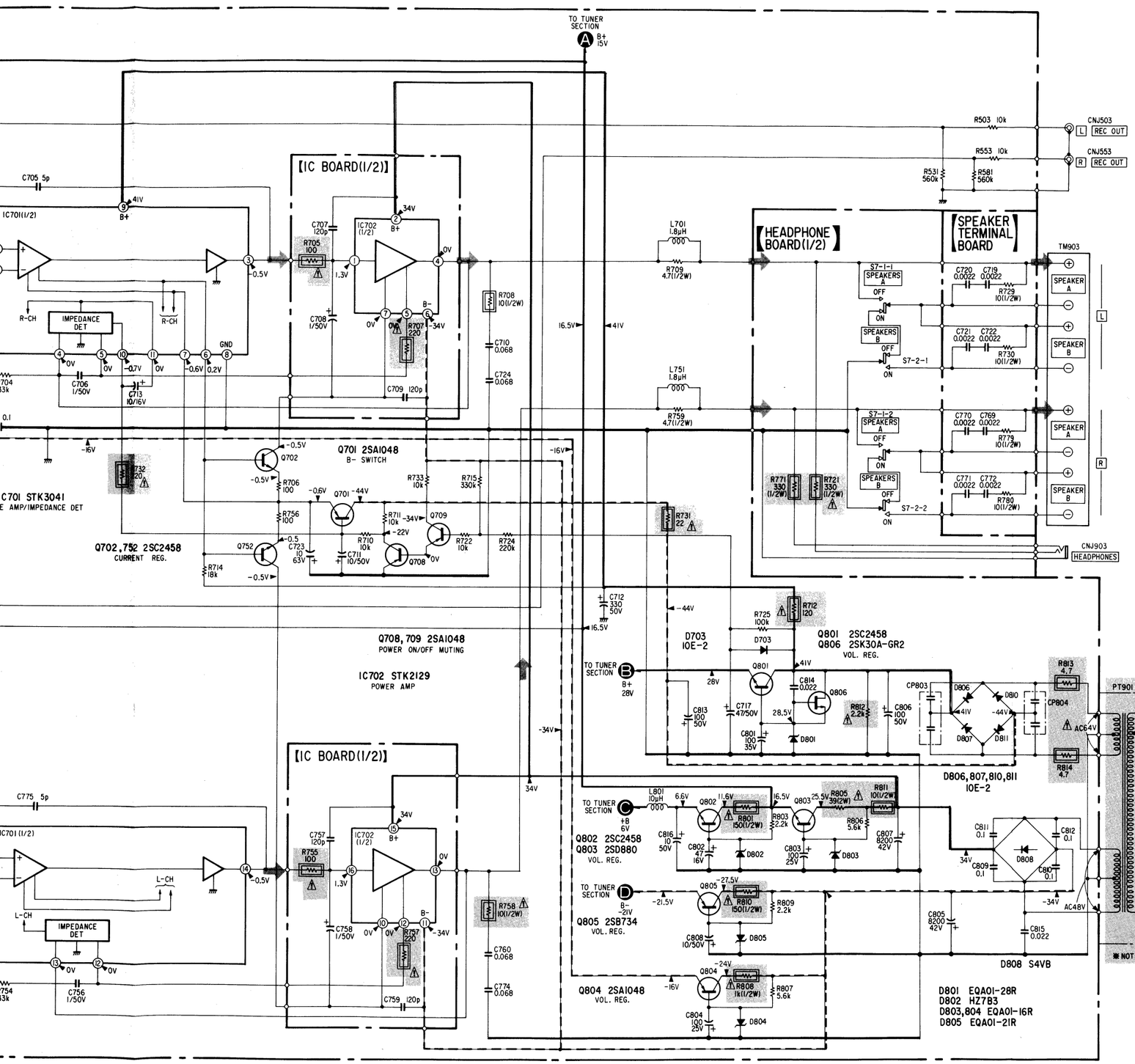
DRY BATTERY SIZE "AA" (IEC DESIGNATION R6) 2pcs. 3VDC (MEMORY BACK UP)

| | | |

5-4. SCHEMATIC DIAGRAM

– Audio Board –





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- : nonflammable resistor.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  : FM
  ( ) : MW
  < > : LW
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S5	TAPE MONITOR	SOURCE
S6	LOUDNESS	OFF
S7-1	SPEAKERS A	ON
S7-2	SPEAKERS B	OFF
S9	POWER	OFF

- : signal path

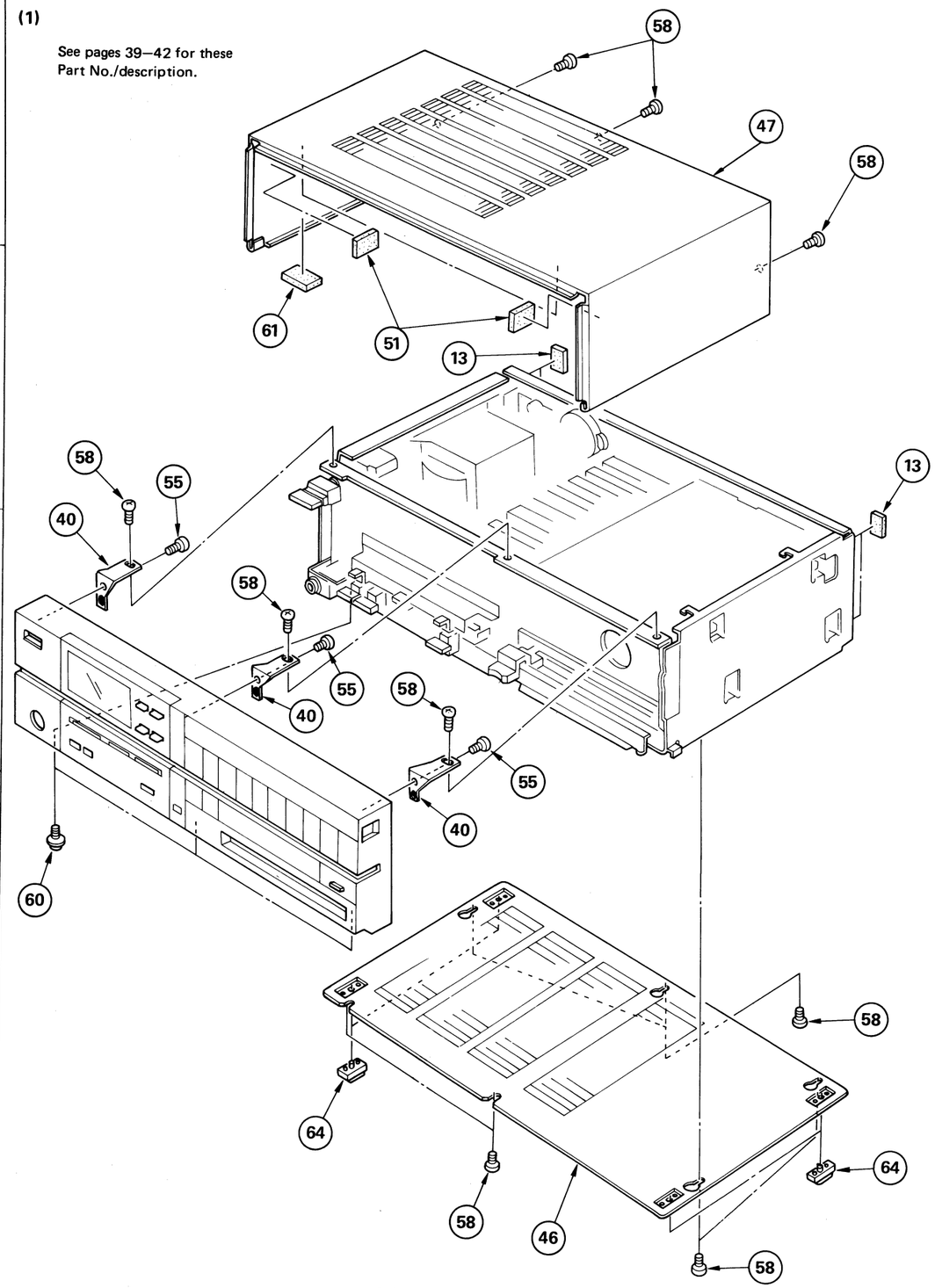
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Voltages are measured with a VOM (50kΩ/V).

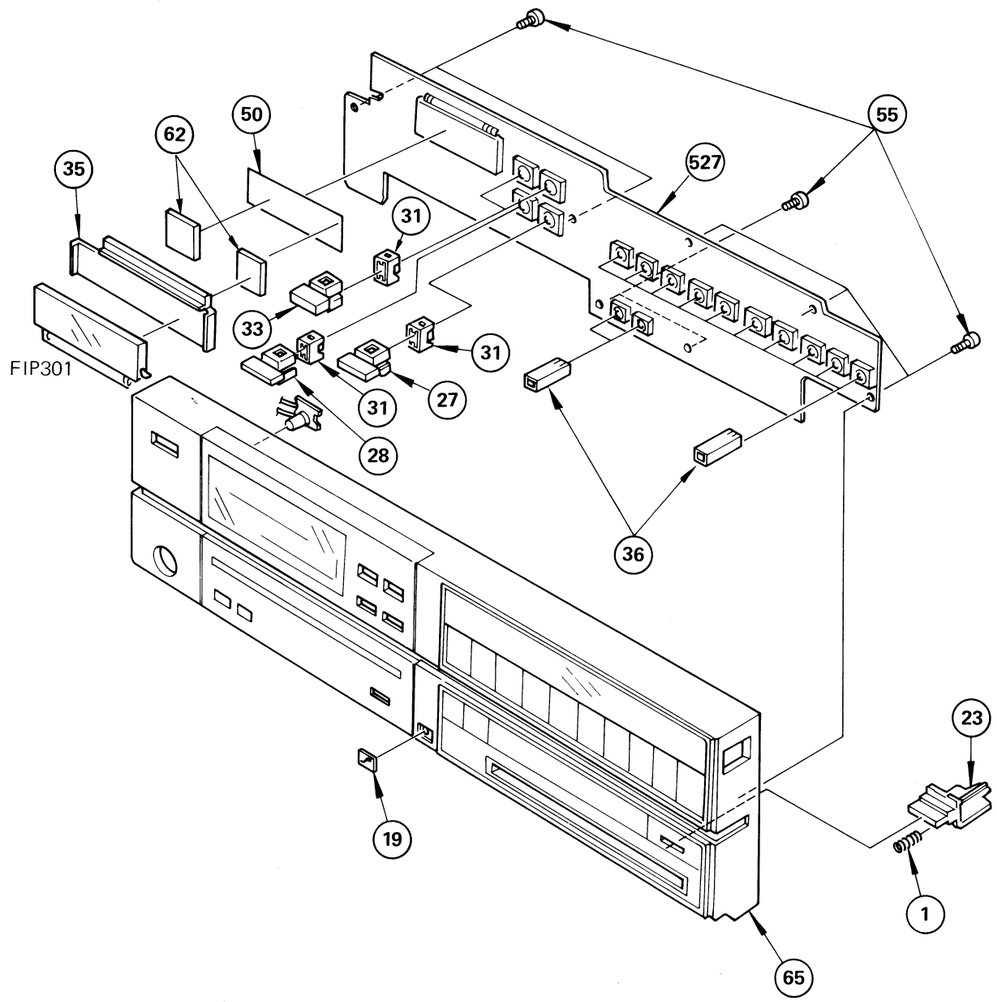
SECTION 6
EXPLODED VIEWS AND PARTS LIST

(1)

See pages 39–42 for these Part No./description.



(2)



(3)

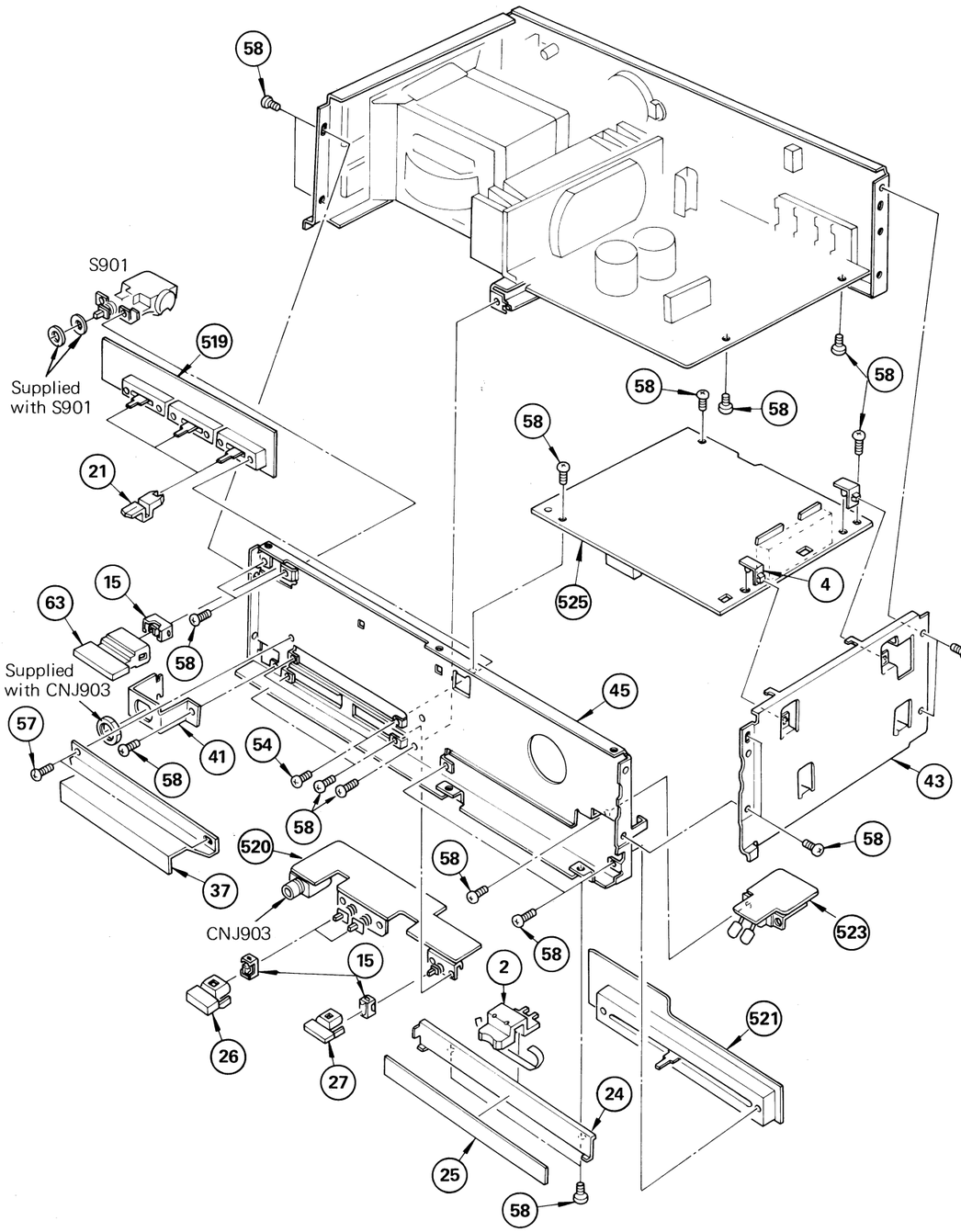
Supplie
with S

63

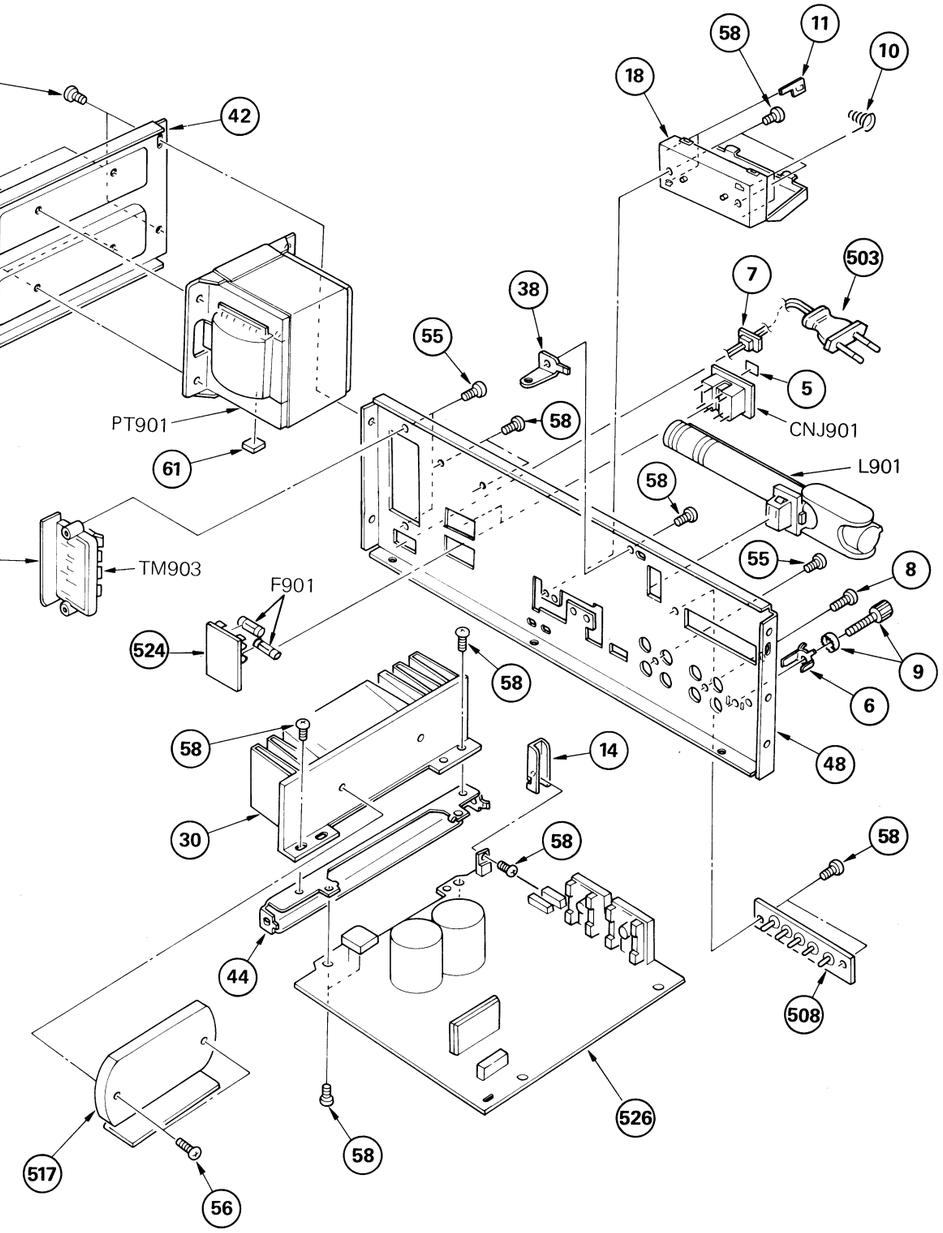
Supplied
with CN

57

(3)


58
S901
519
Supplied with S901
21
58
58
58
58
525
4
15
63
58
Supplied with CNJ903
57
41
58
54
58
45
43
58
58
520
37
CNJ903
58
58
523
15
2
26
27
521
24
25
58

(4)


59
42
18
58
11
10
503
7
38
55
5
PT901
58
CNJ901
61
L901
58
518
TM903
55
8
F901
524
9
58
6
58
14
48
30
58
58
44
508
526
517
58
56

GENERAL SECTION

No.	Part No.	Description
1	2-217-533-00	SPRING, COMPRESSION
2	3-302-901-00	KNOB (A), SLIDE CONTROL
3	3-559-001-00	COVER, POWER SWITCH
4 ♦	3-701-832-00	HINGE, CIRCUIT BOARD
5 ♦	3-701-948-16	LABEL, FUSE
6	3-701-993-00	SPACER, TERMINAL
7 ⚠	3-703-244-00	BUSHING, CORD
8	3-703-473-00	SCREW, TERMINAL
9	3-706-165-00	SCREW
10	3-883-424-00	SPRING
11	3-883-428-00	PLATE, TERMINAL (POSITIVE)
12 ♦	4-844-449-00	LABEL
13	4-855-010-00	SPACER, TC
14 ♦	4-857-562-00	HEAT SINK, TR
15	4-864-307-00	RING, FLEXIBLE
16 ♦	4-866-397-00	CUSHION, LED
17	4-875-501-03	GUIDE, POWER KNOB
18	4-875-530-00	CASE, BATTERY
19	4-875-535-00	EMBLEM
20	4-875-538-00	LABEL, ANTENNA CAUTION
21	4-875-703-00	KNOB (B), CONTROL, SLIDE
22 ♦	4-875-704-00	CAP, SWITCH
23	4-875-705-02	KNOB, TAPE
24 ♦	4-875-706-02	BRACKET, COVER
25	4-875-708-00	COVER, CONTROL, SLIDE
26	4-875-719-00	KNOB, SPEAKER
27	4-875-721-00	(BLACK)...KNOB, TONE CONTROL
28	4-875-721-11	(BLUE)....KNOB, TONE CONTROL
29 ♦	4-875-749-00	SHEET, ILLUMINATOR
30 ♦	4-881-415-11	HEAT SINK (A)
31	4-881-725-00	RING (TACT), FLEXIBLE
32 ♦	4-881-747-00	LABEL, BATTERY
33	4-884-007-00	KNOB (6X14)
34	4-884-010-00	HOLDER, STATION
35 ♦	4-884-011-00	HOLDER
36	4-884-012-00	SPACER, ROD
37 ♦	4-884-017-00	MASK, SLIDE
38 ♦	4-884-018-00	BRACKET, PC BOARD
39 ♦	4-884-019-00	BRACKET, JACK
40 ♦	4-884-020-00	BRACKET, PANEL
41	4-884-022-00	LABEL, STATION
42 ♦	4-884-029-00	PLATE (LEFT), SIDE
43 ♦	4-884-030-00	PLATE (RIGHT), SIDE
44 ♦	4-884-031-00	BRACKET, HEAT SINK
45 ♦	4-884-032-00	CHASSIS, SUB

GENERAL SECTION

No.	Part No.	Description
46 ♦	4-884-033-00	PLATE, BOTTOM
47	4-884-035-00	CASE
48 ♦	4-884-038-21	PLATE, JACK
49 ♦	4-884-039-00	BRACKET, GROUND (A)
50	4-884-042-00	CUSHION
51	4-884-043-00	CUSHION
52	4-884-044-00	ILLUMINATOR
53	4-884-045-00	PLATE, LIGHT INTERCEPTION
54	7-621-772-10	SCREW +B 2X4
55	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
56	7-685-649-11	SCREW +BVTP 3X14 TYPE2 N-S
57	7-685-870-09	SCREW +BVTP 3X5 (S)
58	7-685-871-01	SCREW +BVTT 3X6 (S)
59	7-685-880-01	SCREW +BVTT 4X6 (S)
60	7-703-249-01	SCREW +PTTWH 3X6 SWRM
61	9-911-843-XX	CUSHION (A)
62	9-911-863-XX	SPACER
63	X-4875-501-0	KNOB ASSY, POWER
64	X-4875-503-0	FOOT ASSY, MF
65	X-4884-006-0	PANEL ASSY

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
91	3-701-630-00	BAG, POLYETHYLENE
92	3-703-669-00	SHEET, CAUTION, FTZ
93	3-773-105-11	MANUAL, INSTRUCTION
94	3-773-105-41	MANUAL INSTRUCTION
95	4-855-809-00	SHEET PROTECTION
96	4-884-046-00	INDIVIDUAL CARTON
97	4-884-049-00	CUSHION (LOWER RIGHT)
98	4-884-050-00	CUSHION (UPPER RIGHT)
99	4-884-051-00	CUSHION (LOWER LEFT)
100	4-884-052-00	CUSHION (UPPER LEFT)
101	X-4884-001-0	LABEL ASSY, STATION
101	X-4884-001-1	LABEL ASSY, STATION

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description		
501 ♦	;1-508-994-00	PIN, CONNECTOR		
502	1-533-131-00	HOLDER, FUSE		
503 ⚠	.1-534-817-XX	CORD, POWER, EULO PLUG		
504 ♦	;1-535-115-00	TERMINAL		
505 ♦	;1-535-119-00	TERMINAL		
506 ♦	;1-535-122-00	TERMINAL, 9P		
507 ♦	;1-535-416-00	TERMINAL		
508	1-536-743-00	TERMINAL BOARD (ANTENNA)		
509 ♦	;1-560-039-00	PIN, CONNECTOR		
510 ♦	;1-560-060-00	PIN, CONNECTOR 2P		
511 ♦	;1-560-281-00	CONNECTOR PIN 5P		
512 ♦	;1-560-283-00	CONNECTOR PIN 8P		
513 ♦	;1-561-440-00	SOCKET, CONNECTOR 4P		
514 ♦	;1-561-442-00	SOCKET, CONNECTOR 6P		
515 ♦	;1-561-444-00	SOCKET, CONNECTOR 8P		
516	1-561-919-00	SOCKET, CONNECTOR		
517	1-608-427-00	PC BOARD, IC		
518	1-608-429-00	PC BOARD, SPEAKER TERMINAL		
519 ♦	;1-608-430-00	PC BOARD, TONE CONTROL		
520 ♦	;1-608-431-00	PC BOARD, HEADPHONE		
521 ♦	;1-608-432-00	PC BOARD, VOLUME		
522 ♦	;1-608-433-00	PC BOARD, LED		
523 ♦	;1-608-434-00	PC BOARD, TAPE SWITCH		
524	1-608-436-00	PC BOARD, FUSE (A)		
525 ♦	;A-4351-320-A	MOUNTED PCB, TUNER		
526 ♦	;A-4388-328-A	MOUNTED PCB, POWER		
527 ♦	;A-4472-102-A	MOUNTED PCB, DISPLAY		
C601	1-161-318-00	CERAMIC	390PF	10% 50V
C602	1-130-632-00	FILM	0.1MF	5% 50V
C611	1-130-628-00	FILM	0.047MF	5% 50V
C612	1-130-628-00	FILM	0.047MF	5% 50V
C651	1-161-318-00	CERAMIC	390PF	10% 50V
C652	1-130-632-00	FILM	0.1MF	5% 50V
C661	1-130-628-00	FILM	0.047MF	5% 50V
C662	1-130-628-00	FILM	0.047MF	5% 50V
C710	1-130-630-00	FILM	0.068MF	5% 50V
C724	1-130-630-00	FILM	0.068MF	5% 50V
C760	1-130-630-00	FILM	0.068MF	5% 50V
C774	1-130-630-00	FILM	0.068MF	5% 50V
C901 ⚠	.1-161-744-00	CAP, CERAMIC 10000PF		
C902 ⚠	.1-161-744-00	CAP, CERAMIC 10000PF		
CF201	1-527-344-91	FILTER, CERAMIC		
CF202	1-527-344-91	FILTER, CERAMIC		
CF203	1-527-344-91	FILTER, CERAMIC		
CF301	1-527-835-00	OSCILLATOR, CERAMIC		
CF401	1-527-599-00	FILTER, MECHANICAL		

ELECTRICAL PARTS

Ref.No.	Part No.	Description	
⚠CNJ901	.1-526-694-00	OUTLET, AC	
CNJ903	1-507-808-00	JACK, LARGE TYPE	
CP803	1-102-394-00	CERAMIC	250V
CP804	1-102-394-00	CERAMIC	250V
CT401	1-141-180-00	CAP, TRIMMER 15P	
CT402	1-141-180-00	CAP, TRIMMER 15P	
CT403	1-141-181-11	CAP, TRIMMER	
CT404	1-141-181-11	CAP, TRIMMER	
D201	8-719-815-55	DIODE 1S1555	
D202	8-719-815-55	DIODE 1S1555	
D301	8-719-815-55	DIODE 1S1555	
D302	8-719-936-25	DIODE EQA01-25R	
D304	8-719-815-55	DIODE 1S1555	
D305	8-719-912-00	DIODE MV-12N	
D306	8-719-815-55	DIODE 1S1555	
D307	8-719-815-55	DIODE 1S1555	
D308	8-719-815-55	DIODE 1S1555	
D309	8-719-815-55	DIODE 1S1555	
D310	8-719-815-55	DIODE 1S1555	
D312	8-719-815-55	DIODE 1S1555	
D313	8-719-815-55	DIODE 1S1555	
D314	8-719-815-55	DIODE 1S1555	
D316	8-719-904-55	DIODE GL-5HD5	
D401	8-719-912-27	DIODE KV1226	
D402	8-719-912-27	DIODE KV1226	
D403	8-719-815-55	DIODE 1S1555	
D404	8-719-912-00	DIODE MV-12N	
D405	8-719-912-00	DIODE MV-12N	
D406	8-719-815-55	DIODE 1S1555	
D501	8-719-815-55	DIODE 1S1555	
D502	8-719-900-66	DIODE GL-5NY55	
D503	8-719-900-66	DIODE GL-5NY55	
D703	8-719-200-02	DIODE 10E-2	
D801	8-719-931-28	DIODE EQB01-28	
D802	8-719-100-43	DIODE RD7.5E-B1	
D803	8-719-931-16	DIODE EQB01-16	
D804	8-719-931-16	DIODE EQB01-16	
D805	8-719-931-21	DIODE EQB01-21	
D806	8-719-200-02	DIODE 10E-2	
D807	8-719-200-02	DIODE 10E-2	
D808	8-719-504-40	DIODE S4VB40	
D810	8-719-200-02	DIODE 10E-2	
D811	8-719-200-02	DIODE 10E-2	
F901 ⚠	.1-532-259-00	FUSE, TIME-LAG	
F902 ⚠	.1-532-259-00	FUSE, TIME-LAG	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
FIP301	1-519-256-00	INDICATOR TUBE, FLUORESCENT
IC201	8-759-812-35	IC LA1235
IC202	8-759-833-90	IC LA3390
IC301	8-759-200-66	IC 4621BP6502
IC302	8-759-617-78	IC CX-778A
IC401	8-759-812-45	IC LA1245
IC501	8-759-600-12	IC M5218L
IC502	8-759-307-70	IC CX-770A
IC601	8-759-600-12	IC M5218L
IC701	8-749-930-41	IC STK-3041
IC702	8-749-921-29	IC STK-2129
J501	1-507-788-00	JACK, PIN 4P
J502	1-507-788-00	JACK, PIN 4P
J503	1-507-788-00	JACK, PIN 4P
J504	1-507-788-00	JACK, PIN 4P
J551	1-507-788-00	JACK, PIN 4P
J552	1-507-788-00	JACK, PIN 4P
J553	1-507-788-00	JACK, PIN 4P
J554	1-507-788-00	JACK, PIN 4P
L301	1-408-117-00	MICRO INDUCTOR 10UH
L402	1-408-199-00	MICRO INDUCTOR 220UH
L701 ♦	1-420-872-00	COIL, AIR CORE
L751 ♦	1-420-872-00	COIL, AIR CORE
L801	1-408-183-00	MICRO INDUCTOR 10UH
L901	1-401-929-31	ANTENNA, FERRITE-ROD (LW/MW)
LPF201	1-235-125-00	ENCAPSULATED COMPONENT
⚠ PT901	1-447-411-00	TRANSFORMER, POWER
Q201	8-729-671-14	TRANSISTOR 2SC710-14
Q202	8-729-671-14	TRANSISTOR 2SC710-14
Q203	8-729-671-14	TRANSISTOR 2SC710-14
Q204	8-729-671-14	TRANSISTOR 2SC710-14
Q205	8-729-245-83	TRANSISTOR 2SC2458
Q206	8-729-245-83	TRANSISTOR 2SC2458
Q207	8-729-245-83	TRANSISTOR 2SC2458
Q208	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-612-77	TRANSISTOR 2SA1027R
Q303	8-729-612-77	TRANSISTOR 2SA1027R
Q304	8-729-204-82	TRANSISTOR 2SA1048
Q305	8-729-245-83	TRANSISTOR 2SC2458
Q306	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q307	8-729-665-47	TRANSISTOR 2SC1362
Q401	8-729-245-83	TRANSISTOR 2SC2458
Q402	8-729-245-83	TRANSISTOR 2SC2458
Q403	8-729-612-77	TRANSISTOR 2SA1027R

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q404	8-729-245-83	TRANSISTOR 2SC2458			
Q405	8-729-245-83	TRANSISTOR 2SC2458			
Q406	8-729-612-77	TRANSISTOR 2SA1027R			
Q407	8-729-245-83	TRANSISTOR 2SC2458			
Q408	8-729-245-83	TRANSISTOR 2SC2458			
Q409	8-729-203-05	TRANSISTOR 2SK30A-GR3			
Q501	8-729-245-83	TRANSISTOR 2SC2458			
Q502	8-729-204-82	TRANSISTOR 2SA1048			
Q503	8-729-245-83	TRANSISTOR 2SC2458			
Q504	8-729-204-82	TRANSISTOR 2SA1048			
Q505	8-729-245-83	TRANSISTOR 2SC2458			
Q506	8-729-612-77	TRANSISTOR 2SA1027R			
Q701	8-729-612-77	TRANSISTOR 2SA1027R			
Q702	8-729-245-83	TRANSISTOR 2SC2458			
Q708	8-729-612-77	TRANSISTOR 2SA1027R			
Q709	8-729-612-77	TRANSISTOR 2SA1027R			
Q752	8-729-245-83	TRANSISTOR 2SC2458			
Q801	8-729-245-83	TRANSISTOR 2SC2458			
Q802	8-729-245-83	TRANSISTOR 2SC2458			
Q803	8-729-288-02	TRANSISTOR 2SD880			
Q804	8-729-204-82	TRANSISTOR 2SA1048			
Q805	8-729-103-43	TRANSISTOR 2SB734			
Q806	8-729-203-06	TRANSISTOR 2SK30A-GR2			
R201	1-244-945-00	CARBON	1M	5%	1/2W
R212 ⚠	1-247-109-00	CARBON	120	5%	1/4W F
R220 ⚠	1-247-109-00	CARBON	120	5%	1/4W F
R241 ⚠	1-247-109-00	CARBON	120	5%	1/4W F
R301	1-244-857-00	CARBON	220	5%	1/2W
R305	1-244-871-00	CARBON	820	5%	1/2W
R307	1-244-871-00	CARBON	820	5%	1/2W
R419 ⚠	1-247-109-00	CARBON	120	5%	1/4W F
R424 ⚠	1-247-115-00	CARBON	220	5%	1/4W F
R528	1-244-867-00	CARBON	560	5%	1/2W
R705 ⚠	1-247-107-00	CARBON	100	5%	1/4W F
R707 ⚠	1-247-115-00	CARBON	220	5%	1/4W F
R708	1-244-825-00	CARBON	10	5%	1/2W
R709	1-244-817-00	CARBON	4.7	5%	1/2W
R712 ⚠	1-247-109-00	CARBON	120	5%	1/4W F
R721 ⚠	1-247-228-00	CARBON	330	5%	1/2W F
R729	1-244-825-00	CARBON	10	5%	1/2W
R730	1-244-825-00	CARBON	10	5%	1/2W
R731 ⚠	1-247-091-00	CARBON	22	5%	1/4W F
R732 ⚠	1-247-115-00	CARBON	220	5%	1/4W F
R755 ⚠	1-247-107-00	CARBON	100	5%	1/4W F

NOTE:
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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R757	⚠1-247-115-00	CARBON	220	5%	1/4W	F
R758	⚠1-244-825-00	CARBON	10	5%	1/2W	
R759	1-244-817-00	CARBON	4.7	5%	1/2W	
R771	⚠1-247-228-00	CARBON	330	5%	1/2W	F
R779	1-244-825-00	CARBON	10	5%	1/2W	
R780	1-244-825-00	CARBON	10	5%	1/2W	
R801	⚠1-247-220-00	CARBON	150	5%	1/2W	F
R805	⚠1-206-477-00	METAL	39	5%	2W	F
R808	⚠1-247-240-00	CARBON	1K	5%	1/2W	F
R810	⚠1-247-220-00	CARBON	150	5%	1/2W	F
R811	⚠1-212-966-00	FUSIBLE	22	5%	1/2W	F
R812	⚠1-206-672-00	METAL	2.2K	5%	2W	F
R813	⚠1-247-079-00	CARBON	4.7	5%	1/4W	F
R814	⚠1-247-079-00	CARBON	4.7	5%	1/4W	F
RT201	1-226-236-00	RES, ADJ, CARBON 10K				
RT202	1-226-236-00	RES, ADJ, CARBON 10K				
RT203	1-226-238-00	RES, ADJ, CARBON 50K				
RV601	1-228-613-00	RES, VAR, SLIDE 100K				
RV602	1-228-787-00	RES, VAR, SLIDE 250				
RV603	1-228-788-00	RES, VAR, SLIDE 20K				
RV604	1-228-788-00	RES, VAR, SLIDE 20K				
RV651	1-228-613-00	RES, VAR, SLIDE 100K				
RV653	1-228-788-00	RES, VAR, SLIDE 20K				
RV654	1-228-788-00	RES, VAR, SLIDE 20K				
S5	1-554-275-00	SWITCH, PUSH (1 KEY)				
S6	1-554-274-00	SWITCH, PUSH (1 KEY)				
S7	1-553-899-00	SWITCH, PUSH (2 KEY)				
S301	1-552-412-00	SWITCH, KEY BOARD				
S302	1-552-412-00	SWITCH, KEY BOARD				
S303	1-552-412-00	SWITCH, KEY BOARD				
S304	1-552-412-00	SWITCH, KEY BOARD				
S305	1-552-412-00	SWITCH, KEY BOARD				
S306	1-552-412-00	SWITCH, KEY BOARD				
S307	1-552-412-00	SWITCH, KEY BOARD				
S308	1-552-412-00	SWITCH, KEY BOARD				
S309	1-552-412-00	SWITCH, KEY BOARD				
S310	1-552-412-00	SWITCH, KEY BOARD				
S311	1-552-412-00	SWITCH, KEY BOARD				
S312	1-552-412-00	SWITCH, KEY BOARD				
S313	1-552-412-00	SWITCH, KEY BOARD				
S314	1-552-412-00	SWITCH, KEY BOARD				
S315	1-552-412-00	SWITCH, KEY BOARD				
S316	1-552-412-00	SWITCH, KEY BOARD				
S318	1-552-412-00	SWITCH, KEY BOARD				
S901	⚠1-553-447-00	SWITCH, PUSH (AC POWER)				

ELECTRICAL PARTS

Ref.No.	Part No.	Description
T201	1-404-338-00	TRANSFORMER, DISCRIMINATOR (FM)
T202	1-404-339-00	TRANSFORMER, DISCRIMINATOR
T401	1-405-927-00	COIL, MW OSC
T402	1-405-914-00	COIL, LW OSC
T403	1-409-348-00	COIL, MECHANICAL FILTER
TM903	1-536-706-00	TERMINAL BOARD (SP)
XT301	1-527-731-00	OSCILLATOR, CRYSTAL

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